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FRANK GOULD, Vice-President.
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RICHARD H. EDMONDS,
Editor and General Manager.

EDWARD INGLE, Managing Editor.

ALBERT PHENIS,
General Staff Correspondent.

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BALTIMORE, FEBRUARY 10, 1910.

WHO'LL BE THE NEXT?

We congratulate Hon. J. Taylor Ellyson of Richmond, Va., and shall congratulate the others just as soon as the opportunity presents itself, which will be when they find things out.

RIPENESS.

In deciding that "the time is ripe" for the passage of the Federal Incorporation act, does Mr. Taft use the word "ripe" in the sense in which it was applied to the beef used at the White House during the occupancy of his immediate predecessors? By the way, that "ripe beef" may explain a number of mysteries of the Roosevelt administration.

THE TURNING WORMS.

If, in the matter of beef, refusal of cattle raisers to sell to the packers should be added to refusal of the public to buy from the packers, a way might be opened for ridding the desirable and beneficial economies of the trust idea of the misuse of economic power thus acquired in attempts to subject producers of raw material and consumers of finished products to the real middleman.

CANADA'S LOW POSTAL RATES ON NEWSPAPERS AND MAGAZINES.

In considering the postal rate on newspapers and magazines it would be well for Congress to find out how Canada can handle newspapers and magazines at one-quarter of a cent per pound and still run the Postoffice Department on a paying basis and have a surplus at

the end of each year. The rate paid by American papers and magazines is one cent per pound, or four times as high as the Canadian rate, and yet, according to President Taft and the Postoffice Department, this must be largely increased in order to save the Department from a heavy annual deficit. Canada charges one-quarter of the rate charged by the United States Postoffice, and is able to make both ends meet and have something over at the end of the year in its Postoffice Department. Where is the difference? Is the Canadian Postoffice more wisely administered than ours? Are American railroads paid a higher rate than Canadian railroads? In the light of the rate charged on the newspapers and magazines of Canada of one-quarter of a cent per pound, with the Postoffice, notwithstanding such a remarkably low rate, netting a profit to the Government, what possible excuse can there be for the United States to increase the present rate of one cent per pound, which is four times the rate charged in Canada? To do so would, it seems on its face, be an admission that the Canadian Government is more efficient and is operated to very much greater advantage, at least in its Postoffice Department, than ours.

THE COWARDLY BOYCOTT.

Commenting upon the verdict in the case of the Danbury haters, the New York Times says:

In a moment of exultation over the victory one of the counsel in the case said that this verdict was a new declaration of independence. It comes none too soon. While corporations suspected of restraining trade have been relentlessly pursued, labor unions have been permitted without molestation to destroy trade and to bring ruin upon firms and men guilty of no crime save going on their own way about their lawful concerns. The unions are now brought face to face with the dangerous consequences of their lawlessness. Moreover, some of the demagogues and agitators who have been amassing political capital by howling night and day for the enforcement of the law against unlawful combinations will now have a clearer idea of the scope of the statute. Now that it has struck a coward's weapon from the hand of labor they may conclude that the further use of it in their political haranguing will be of doubtful expediency. They will be forced to admit that at last they have got what they have so long clamored for, one law for the poor and for the rich.

"It is a poor rule that won't work both ways" and "What is sauce for the goose ought to be sauce for the gander" are popular expressions of the principle of justice emphasized in the Danbury boycott verdict. Demagoguery, in seeking to escape boycott by such masses, forgets that the boycott is just as cowardly in the hands of an aggregation of wage-earners or an aggregation of farmers as it is in the hands of an aggregation of money capital. The Danbury verdict ought to lead to clearer thinking and straighter action in this particular.

MANY YEARS' WORK FOR THE SOUTH PRODUCING RESULTS.

The South is beginning to feel the cumulative effects of the work which its people have been doing for the last 30 years. It could not reasonably have been expected in the past that the magnificent work which the leaders in Southern development have been carrying forward would produce an immediate full harvest. For more than a generation the South has been passing through the plowing and the seeding time. The seeds have been scattered broadcast over the United States as well as over much of Europe. Now this section is beginning to see the ripening of the harvest.

The Southward trend of men and money, the awakened interest throughout the United States in the resources and possibilities of the South, are not the outcome of any work of the past few years. They are consequences of the cumulative work of the last 30 years.

When about 1880 the South, rising from the wreck and ruin of the war and the reconstruction period, worse in its effects than war itself, began the revival of the industrial interests so rudely shattered by that struggle, it aroused the sentimental interest of the country, and to a certain extent sentiment played a large part in Southern progress during the next 10 years. That sentimental side of Southern development, however, passed away when the strain came in 1891 and 1892, with the Baring failure, and the great depression in cotton which began about that time. This section then had to face a long period of agricultural poverty and industrial stagnation, the latter coming with great severity after the panic of 1893. So serious was the general depression throughout the South in that period that the total increase in the assessed value of all property in this section from 1890 to 1900 was only about \$780,000,000, whereas in the preceding decade, from 1880 to 1890, the increase had been nearly \$1,500,000,000. Thus, notwithstanding the steady increase in population, the progress of the South in the 10 years ending with 1900, as measured by the increased value of property, was but little more than one-half as great as between 1880 and 1890. With the coming of higher prices of cotton in 1900-1903 agricultural conditions improved. Gradually the farmers found themselves in better financial shape than for years—able to pay off in the aggregate hundreds of millions of mortgages and crop-lien indebtedness. Then they felt the stimulation which comes with freedom from debt and an increasing bank account. Farm lands which had been depreciating in value gradually began to show a steady increase. In the past nine years the assessed value of property in the South has risen to \$9,560,000,000, an amount three times as great as the assessed value of 1880, more than twice as great as the assessed value of 1890 and 80 per cent. greater than the assessed value of 1900. In the meantime the great financial forces of the world, which had not been seriously affected by the sentimental side of Southern development between 1880 and 1890, came more and more to a recognition of the unequalled advantages of the South. Line upon line, precept upon precept, had been making their impression upon the world. The success of Southern cotton mills had convinced investors, North as well as South, of the exceptional advantages of the South for cotton manufacturing. The fact that the iron interests of the Central South had weathered the tremendous changes which had taken place in the iron and steel interests of the world by reason of the discovery of the Mesaba ores in the early part of the 90's, and the extreme panicky conditions in iron and steel after 1893, had given to the metallurgical world a higher appreciation than it had ever had of the remarkable advantages of the South for iron and steel production. One by one the great leaders in metallurgical development had slowly but surely turned their thought to the South. The men who had made fortunes in coal in Pennsylvania gradually crossed the imaginary dividing line which had separated them from West Virginia. When they found that coal investments in West Virginia proved as profitable as had coal investments in Pennsylvania, they extended their investigations and investments in coal lands, moving on down the line into Virginia, into Kentucky and Tennessee and Alabama.

The heavy increase in value which has taken place in coal properties in West Virginia, where in some places coal lands are selling at \$300 to \$400 an acre, while five or ten years ago \$50 an acre would have been considered extravagant, is not the result of any new and sudden awakening to the wealth of West Virginia. It is only the natural trend of economic development, the fruiting of the bud and blossom of the last 10 years.

The movement into Alabama of the United States Steel Corporation, backing that section with its almost limitless millions, was not the outcome of any sudden discovery of the iron ore and coal of that State nor of any sudden outburst of activity in making known the resources of the South to the people of other sections. It was merely the culmination of the work which had been going on quietly, but none the less effectively, for many years.

The wonderful developments on Galveston Bay, where capitalists who have made the science of transportation on the Lakes one of the wonders of modern times are developing the most comprehensive warehousing system in America, is not the result of recent agitation to attract capital to the South, but is only the fulfillment of the plans laid more than two-score years ago by the man who is now carrying out this vast undertaking. Twenty years or more ago he purchased property on Galveston Bay for the express purpose of creating great shipping facilities commensurate with the terminal facilities on the Lakes when-

ever, in his judgment, the time seemed ripe for the work. The fact that Galveston itself is now doing a foreign trade exceeding by more than \$25,000,000 a year the combined foreign trade of all Pacific ports is merely the culmination of that inevitable trend of foreign trade which those who had the foresight to see and the patience to wait for have always known must inevitably come to Galveston and to other Southern ports.

Let us not for a moment imagine that anything that the South of itself is now doing, or that other people are doing or have done in the last few years even, should be regarded as responsible for the many changes which are taking place in Southern development. The latter day is merely reaping the harvest planted in the former. The momentum now seen everywhere in the movement of population and money southward, and the attention which the South is commanding throughout all parts of the United States and in many parts of Europe, are merely the cumulative effects of 30 years of work.

The pioneers in the iron development of Alabama, the men who struggled in years past to raise capital for the building of cotton mills in the South, the men who ceaselessly preached the doctrine of diversification of agriculture in order that the whole thought of the South might not be centered upon cotton, the men who led in the building of railroads and in the opening of coal mines, the men who for more than a quarter of a century have struggled—whether selfishly or unselfishly, whether for their own personal gains or for the advancement of this favored land, it matters not—are the men who have done the pioneering work. They plowed the hard ground, they sowed the seed, at times amid discouragement and doubt, but the harvest is in sight, and the rising generation, beginning to reap the riches of this harvest, should recognize that to the work of the pioneers, to the Gunby Jordans, to the Hickmans, to the Gradys, to the Howells, to the De Bardelebens, to the Slosses and the thousands of others who in mine and in furnace, in factory and through the press, did a work which has never been surpassed for courage, for devotion, for tireless energy in this or any other land—to these men is due the harvest which we are now beginning to gather. Great, indeed, is that harvest to be. It will fill the storehouses of the South to bursting; wealth greater than has ever been seen in the South—greater than has ever been seen in any part of this land—is coming, and coming with great rapidity. No stronger evidence that the South has "arrived" could be had than the fact that where silence about this section reigned during all the period of its own struggle, and even where misrepresentation prevailed, there are now the most strenuous efforts to appear as heralds of Southern advancement, and whatever advantages may accrue to the South from such heraldry will now be added to what the South has accomplished. But the fight had been won long before the new heralds of advancement came into the field. The 200,000 Western people who, like a mighty army, are now annually settling in Texas and Florida are but the advance guard of an army of many times as many who will soon be spreading all over the South and rejoicing that they have found the Promised Land, the land of which it might almost be said the sacred writer had in mind when some thousands of years ago he wrote:

"A good land, a land of brooks of water, of fountains and depths that spring out of valleys and hills; a land of wheat, and barley, and vines, and fig trees, and pomegranates; a land of oil, olive and honey; a land wherein thou shalt eat bread without scarceness, thou shalt not lack anything in it; a land whose stones are iron and out of whose hills thou mayest dig brass."

HOW SOUTHERN COMMUNITIES SHOULD ADVERTISE.

Mr. F. H. LaBaume, agricultural and industrial agent of the Norfolk & Western Railway, writing to the MANUFACTURERS' RECORD of the work of Southern railroads in trying to attract attention to this section, says:

While the railroads of the South are looking for legitimate business and catering to the transportation, going or coming, I believe that if the same hearty co-operation were shown by the clientele whom the railroads serve in the issuing of attractive literature, the advertising of their advantages, and above all, the wide-armed, spontaneous hospitality that is of the most vital importance to the successful results, then the Southern railroads would have greater encouragement in prosecuting the immigration end instead of catering to that of emigration.

The MANUFACTURERS' RECORD fully agrees with Mr. LaBaume in the position he takes that Southern towns do not, with rare exception, prepare the highest form of literature, equalling in character that issued by the Pacific Coast and many Western towns and cities, nor do they always give to the newcomer, whether the newcomer be a dollar or a man, the same enthusiastic welcome as is given in the Far West and on the Pacific Coast.

As a matter of fact, many Southern cities seem to think that because they are well known and are making progress, no broad, active campaign in publicity work is needed. No city in the South, so far as we are advised, has ever issued such splendidly prepared and magnificently printed literature as

do many of the Western cities, such, for instance, as Portland, Ore. A recent publication from Portland is broad enough to be really a story not so much of Portland as of all Oregon, and yet in this way it makes an exceptionally attractive and attention-compelling Portland story. Atlanta, for instance, has never undertaken in behalf of all Georgia such a publication, nor has Birmingham, or Montgomery, or Mobile ever issued anything about Alabama equalling that of the Portland Board of Trade about Oregon. Neither Nashville nor Chattanooga has ever done anything of the kind for Tennessee. Galveston, with its wonderful foreign trade, exceeding by \$25,000,000 a year the combined foreign trade of all the ports on the Pacific coast, makes no such comprehensive and tireless campaign in behalf of population and capital as do Portland and other Pacific coast cities.

The trouble with the South has been that the people themselves in these Southern towns and cities have not recognized the importance of this work, nor have they been willing to spend the money needed to secure it. Real-estate owners, whose property is tremendously enhanced in value by the growth of towns and cities, do not seem to recognize that they should be very liberal spenders in the maintenance of live, active commercial organizations and in every movement calculated to build up a community. In the growth of a city no class of people reap greater benefits than property owners, though, as

a general thing, they do not show their appreciation of this fact by liberal expenditures to an extent as great as other business interests. It is, however, true that increasing prosperity and increasing population mean greater opportunities for every man, woman and child in city and town. The growth of population means more business for the merchant, the lawyer, the manufacturer, the street-car company, the newspaper, as well as more business for the real-estate owner. Western cities have developed the art of publicity and of spending money in this work to a degree that the South has not yet comprehended. Too often the South has gone at such undertakings spasmodically, spent a little money to get out a pamphlet or advertise some particular community, and because immediate results did not show dropped all further expenditure and permitted trade organizations to disband or rather forced them to disband by reason of lack of support. Sometimes the men put in charge of these commercial bodies have been selected not because of peculiar fitness for the work, but because of personal or political influence, regardless of their unfitness. Sometimes the South has wasted money in schemes of advertisement that could not possibly advertise the South advantageously.

City development in this country through publicity has become a science. The men who handle this work have really created a new profession, in which some men are standing out before the country for conspicuous ability. Take, for instance, Tom Richardson, who advertised Houston as Houston never had been advertised before, and much of Houston's present growth is due to the momentum given by Richardson's work. His success at Houston caused New Orleans to call him to that field, and, with a broad conception of the magnificent opportunities of New Orleans, with imagination to see the future, with the power to tell the story and the initiative to devise ways and means to make New Orleans known more widely than it had even been known, Richardson again scored a pre-eminent success. New Orleans is today enjoying the benefit of the fruit the seed of which was planted by Richardson. His work at New Orleans made Portland, Ore., call him with so loud a call as not to be resisted. The fact that Portland has been made one of the pre-eminent widely-known cities of the Pacific coast and that it takes the lead in making all Oregon known to the world has been, to a large extent, the result of Tom Richardson's leadership. Would that he could be tempted back to the South; that some other city in this section, or the cities which he helped make famous, could again have the benefit of his skilled hand. Richardson is an illustration of the kind of work that the South needs, but Richardson could do nothing without ample financial backing and the support of the community. The right man must be had and then he must have unstinted support.

It is everywhere admitted that the South has greater natural advantages and resources than any other section. It has a combination of climate, soil, mineral and timber wealth and geographical location unequalled. It ought to far surpass in growth what the Pacific Coast is doing. It only needs the same kind of skill and energy and broad-minded expenditure on the part of Southern towns, and cities, and

States, and Southern railroads, that has been put forth in the West. And the railroads are not more to blame for not doing as broad work as the Pacific coast railroads than are the people of the South themselves. Wake up!

TEXAS COMMERCIAL SECRETARIES.

Persons who have followed the work done by the Texas Commercial Secretaries' Association since it was organized two years ago will doubtless be surprised at the small amount of money—something less than \$24,000—that the work has cost. Of the total, \$9896 represent the printing and circulation of 358,000 pieces of literature in sheet and pamphlet form, which has attracted the attention of homeseekers and investors to Texas. The money has been raised among the 57 business organizations affiliated with the Association, and through them, through real-estate firms and through financial houses in the East considerable publicity literature has been circulated.

They are an active, practical-minded lot—these business bodies of Texas. In a notable degree, they are equipped with secretaries trained to their tasks and diligent in the prosecution of them. They leave nothing undone to interest in the work of their bodies not only the business men of their communities, but also agriculturists nearby, and a striking commentary upon their activities is the fact that of the clubs reporting to the Association this year 80 per cent. are raising bonuses or subscribing stock for new railway projects; 55 per cent. are to the front for municipal improvements, and 48 per cent. are leading in the campaign for first-class highways. The Texas Commercial Secretaries' Association wants \$50,000 to meet the expenses of its 1910 work. Judging by the past, Texas could make no better investment of \$50,000.

The observation of the MANUFACTURERS' RECORD is that some of the business organizations in the older States of the South might be benefitted by a study of the methods that have been so notably successful in States like Texas and Oklahoma.

Bearing directly upon this are some suggestions in the *Journal of Spartanburg, S. C.*, discussing the scope of a chamber of commerce. Probably the most important is the suggestion, which will be put into effect in that city, that the secretary should be employed by the year at a salary for which he should give the organization all of his time, that he should be qualified to earn such a salary in private business, and should, under no circumstances, be selected on any other ground than that of unquestioned ability and of absolute fitness for the job.

Another suggestion, which the MANUFACTURERS' RECORD would make, is that there should be fewer meetings of directors of business organizations and more frequent meetings of the whole body of their membership. Nothing is better calculated to keep a business secretary up to a high standard of work than the manifestation of interest in that work by the members, not through the comparatively easy process of sending in a check to pay annual dues, but through personal concern about all the questions bearing upon the advancement of the community that should center in its chamber of commerce, board of trade or commercial club. Too frequently directors of such organizations commit by their action the whole body to foolish propositions, and such action

is generally the result of dependence by the directors upon the advice of the secretary, who, in the absence of qualifications for his position, eagerly grasps at any pretext that may seem to justify his receiving his salary.

OKLAHOMA CITY — EXEMPLAR OF ALERTNESS TO INDUSTRIAL OPPORTUNITY.

Does Oklahoma City want us to build a packing plant had enough to pay \$300,000 bonus for its location there? In addition to the \$300,000 cash bonus, will it provide free 250,000 gallons of water per day for five years and exempt the plant from taxation for the same period, and provide these guarantees within 30 days?

Such is the substance, though not the exact wording, of a statement received by Oklahoma City from Schwarzchild & Sulzberger Company, the big packers of Chicago. The projected plant is to represent an investment of \$3,000,000 and to have a daily capacity of 2500 hogs and 1500 sheep. How did Oklahoma City answer the query? The story of what it did and how it did it, as told in the *Daily Oklahoman*, is as breezy as the West itself. On February 1, in reply to this proposition, which had received some previous consideration, the Chamber of Commerce entered into a contract to undertake the matter. In this connection it should be borne in mind that a great packing plant had already been secured for Oklahoma City, and it was desired that in seeking to bring in another packing-house no injustice should be done to the first one owned by Morris & Co. This danger, however, was immediately eliminated by Morris & Co., the vice-president of that company, Mr. Thomas E. Wilson, saying, "There is room for both of us; one plant cannot develop the field." These preliminary facts appeared in the *Daily Oklahoman* of February 2. On February 5 a public meeting was held for the purpose of considering the proposition. The report, referring to the gathering itself, said:

The attendance—well, it is more difficult to estimate a crowd in a room where seats are not counted than in a church. Estimates of yesterday's Booster crowd, ranging from 1000 to 3000, prove the assertion. Everybody was enthusiastic, and enthusiasm influences figures about as recklessly as red wine. Without resorting to figures emanating from excited minds, it may be said in all conservatism that the second floor of the old Mellon Building was never fuller and will never be fuller. The room was packed. Standing-room was at a premium. The meeting had been announced for 10 A. M.—the room was filled at 9.30 A. M.

That tells the story. Think of a public meeting called in a thriving, bustling, growing town where everybody is busy and where every minute means money, and where a great audience-room is so packed that there is not standing space, so that it becomes difficult to tell whether there were 1000 or 3000 people present. Then think of the spirit shown when men, busy as the people of Oklahoma City are, were so desperately in earnest to be on hand to express their interest in the matter that they crowded the great room half an hour ahead of time in order not to be deprived of the opportunity of showing their faith and their enthusiasm by their works. Then the story of how the subscription started, of how the full amount was oversubscribed in 30 minutes, with an eager scramble of men to do their share, and even to subscribe in the name of their children, is enough to quicken the blood and make every man who loves to see things done take off his hat and hurrah for Oklahoma City and for every other town and city that

has shown such vim and life and snap and citizens of such broad vision.

Allowing for the infection of enthusiasm of such a meeting as the reporter tells the story, the very way in which the thing is told throws light upon the life of Oklahoma, its people and its papers. It reads as if the people of Oklahoma really know how to do things, how to work in harmony, how to spend money that greater money may be earned. Evidently the people of Oklahoma believe that in the scattering of the seed the harvest is to be theirs. They know how to build a city, and what they are doing is well worth studying by every man in every town and city of the South. If the spirit displayed in this Oklahoma meeting prevailed from Maryland to Texas, if the people of the whole South had thus found how to do things and how to spend money for the development of their communities, there would be hundreds of Oklahoma Cities all down through the Central South and on out into Texas. Here and there may be found cities where the life of Oklahoma can be duplicated, but they are not numerous. Oklahoma City points the way.

Who will follow?

SPUR FOR BALTIMORE.

Mayor J. Barry Mahool, in his third annual message to the City Council of Baltimore, made some suggestions worthy of careful consideration by every man interested in the future of that city. He did not content himself with a summary of what Baltimore is actually accomplishing, but pointed to movements elsewhere of competition with Baltimore in a section which has for generations been a particular field of the city's business endeavor—the South. He alluded to the activity of New York and Philadelphia and of a chain of Western cities in entering the Southern trade field, and said:

A careful survey of statistics will show that the leading cities of the actual South are themselves beginning to wake up to the magnitude of their own possibilities. The wonderful strides made in some of these cities during the past five years show conclusively that Baltimore's most dangerous future competitors are growing up right under her own nose.

I recommend to the City Council a very careful study of the "Annual Blue Book of Southern Progress," as published by the MANUFACTURERS' RECORD. A survey of the figures, as set forth in that book, will be a startling disclosure to Baltimore as to what the future has in store and as to what the future imposes upon Baltimore in order that she can hold her own.

A number of leading cities of the farther South are far beyond the stage of beginning to wake up to the magnitude of their own possibilities; they have waked up. That fact, in addition to the fact that Baltimore has been slow to wake up to changed conditions, accounts for the backwardness of Baltimore in some particulars. It has not entirely comprehended the various causes of the change or understood the basis of the growing competition. There has been too much dependence upon the logic of the city's location and not enough energy in turning that logic to practical account. The words of Mayor Mahool ought to set the business interests of the city to hard thinking and to strenuous doing.

CUBA.

Reports from Havana that the negroes are planning to control the Government of Cuba should not be permitted to encourage the long-thought-out scheme for the annexation of Cuba, un-

der the pretense of maintaining white civilization, but really for the express benefit of American interests that have invested in Cuba in expectation of having the value of their investments enhanced by annexation.

PORT OF NEW ORLEANS.

Interesting sidelights upon the importance of the port of New Orleans are given in the thirteenth annual report of the Board of Commissioners of the Port of New Orleans, Hugh McClosky, president, and W. H. Byrnes, secretary. The report shows that 520 ocean-going vessels of all kinds made 1705 trips to the port in the past calendar year, representing a gross tonnage of 4,748,104 tons. Of these vessels, 214 were British steamships, 50 American steamships, 53 Norwegian steamships, 20 Italian steamships, 28 German steamships, 15 Austrian steamships, 14 Spanish steamships, 12 Danish steamships, 11 French steamships, 6 Mexican steamships, 8 Portuguese barks, 2 Portuguese ships, 3 German ships, 1 American bark, 1 Norwegian bark, 1 German bark, 1 Uruguayan steamship, 1 Belgium steamship and 1 Dutch steamship.

Of river traffic arrivals there were 1741 of steamboats, 1740 of luggers and gasoline launches engaged in the oyster, fish and vegetable trade, and 420 of flats, coal and gravel barges, tugs, etc. In the report are 14 full-page illustrations of the splendid modern facilities for handling commerce at the public wharves and docks.

NASHVILLE'S TRADE.

In the annual review of the work of the Board of Trade of Nashville, Tenn., Secretary E. S. Shannon and Assistant Secretary L. R. Eastman show that the trade of the city in 1909 aggregated \$35,000,000 retail and \$190,630,000 wholesale, the wholesale trade being divided as follows: Agricultural implements and bugles, \$4,200,000; baking powder, \$250,000; beer, \$1,250,000; boots and shoes, \$11,000,000; coal, \$2,000,000; caskets and burial goods, \$900,000; cotton, \$3,000,000; crockery, queensware, \$700,000; clothing, \$2,700,000; drugs, \$2,500,000; dry goods, \$12,000,000; fertilizers, \$6,000,000; fruits and vegetables, \$3,000,000; produce, \$4,000,000; stoves, \$2,700,000; furniture, \$5,000,000; ginseng, \$200,000; grain, \$30,000,000; hats, \$1,750,000; groceries, \$12,000,000; hardware, \$6,500,000; hides, \$1,000,000; liquors, \$4,000,000; live-stock, \$7,000,000; tobacco manufactured, \$5,000,000; lumber, \$10,000,000; millinery, \$2,000,000; paving, \$3,000,000; printing and publishing, \$6,000,000; saddlery and harness, \$3,750,000; trunks and valises, \$900,000; wool, \$400,000; varied industries, \$37,730,000; total, \$190,630,000.

A SUGGESTION ABOUT SOUTHERN ADVERTISEMENTS.

In the midst of the fulfillment of its prophecy, the *Times of Hartford, Conn.*, says:

Pretty soon the newspapers of the Northern States are likely to be flooded with advertisements of Southern lands for sale, and the results will probably be that a good deal of very poor land will be sold for a good price. The best way will be for anybody who is thinking of going South for a home to get a good look at the soil and study all the conditions before he makes a purchase. But the boom has begun, and the Southern land fever will soon be prevalent throughout the Northern States.

It is quite certain that advertisements of Southern lands will appear in some Northern newspapers in which such advertisements have never appeared before, and which have never apparently been interested in the South, save as a possible unwitting means of pulling political or social chestnuts out of the fire. Intelligent students of Southern development and South-

ern conditions will probably find in this unique advertising of the South some interesting commentaries upon human nature and some weird conceptions about productive publicity.

The advice of the *Times of Hartford* is eminently disinterested and wise. Its suggestion that lands be not purchased in the South without personal and informed inspection is most timely. It might be supplemented with a suggestion that a fair gauge of the legitimacy and value of these Southern advertisements that are to appear will be in the character of the papers in which they appear and the agencies through which they are placed.

CENTERED AT LITTLE ROCK.

This week Little Rock, Ark., is entertaining the convention of the Arkansas Good Roads Association and the Arkansas Drainage Convention, two gatherings closely related to the material advancement of the State and having an immediate bearing upon the land congress which has been called for March 23-25 at Little Rock by President H. L. Remmel of the Board of Trade, President W. M. Kavanaugh of the Business Men's League, Manager Frank T. Longley of the Retail Merchants' Association and Manager A. R. Bragg of the Merchants' Freight Bureau. The official call for this congress holds that the gathering will be an effective means of attracting nation-wide attention to the land opportunities of Arkansas.

A special bulletin of the Board of Trade of Little Rock, Ark., Mr. George R. Brown, secretary, emphasizes the advantages for industries in that city in an abundance of natural gas for fuel, exemption of certain factories from taxation and rail and river transportation facilities. It is estimated that the population of Little Rock has increased 11,781 in the past 12 months.

VIRGINIA LANDS.

Results of the intelligent, systematic work done under the auspices of Commissioner of Agriculture George W. Koener of Virginia for immigration to the State are partly manifested in the increasing number of inquiries coming to his office from persons wishing to buy land. Recent letters of the kind came from Cold Creek, Col.; Mt. Vernon, O.; Spears, Pa.; Borden, Canada; Binghamton, N. Y.; Linden, Pa.; Green Lake, Wis.; Chicago, Ill.; Stockport, O.; Columbus, O.; Bell Plaine, Iowa; Constance, Minn.; Grand Forks, N. D.; Sandusky, O.; Anderson, Cal.; Dodge, Minn.; Tukase, Canada; Armistead, New Mexico; Indianapolis, Ind.; Pittsburg, Pa.; Union City, Ind.; Waupun, Wis.; Necaxa, Mexico; Beaver Falls, Pa.; Centuria, Wis.; Zanesville, O.; Greenwood, Del.; Excelsior, Minn.; Bellevue, Pa.; Seward, Pa., and Elmer, N. J. It is interesting to note that the two inquiries from Canada come from the center of the new wheat region of the Dominion.

REDUCTIO AD ABSURDUM.

In view of the millions of dollars wasted by divers and sundry commissions authorized by the Congress of the United States, the proposition that a Business Methods Commission be appointed and paid to insure rigid economy in the administration of the Government reminds one of a cow chewing on her own tail in the belief that she is up against a bale of hay.

THE COTTON MOVEMENT.

In his report for January 31 Col. Henry G. Hester, secretary of the New Orleans Cotton Exchange, shows that the amount of cotton brought into sight during the first five months of the season was 8,030,722 bales, a decrease under the same period last year of 2,117,835 bales. The exports were 4,171,054 bales, a decrease of 1,595,986 bales. The takings were, by Northern

spinners, 1,451,991 bales, a decrease of 282,470 bales; by Southern spinners, 1,202,744 bales, a decrease of 17,614 bales.

In the 157 days of the season the amount brought into sight was 8,102,495 bales, a decrease under the same period last year of 2,269,196 bales. The exports were 4,261,274 bales, a decrease of 1,639,755 bales. The takings were, by Northern spinners, 1,488,130 bales, a decrease of 303,923 bales; by Southern spinners, 1,233,553 bales, a decrease of 24,827 bales.

WANT INFORMATION ABOUT THE SOUTH.

R. D. Reed, 310 Clark street, Janesville, Wis., desires information about Fayetteville, Ark., and the adjacent country as a place for residence and its adaptability for poultry raising.

Philip Ansteth, 190 East Ferry street, Buffalo, N. Y., wants information about the South and the openings for manufacturing in a section where there is good farming country and healthy neighborhood.

Frank O. Garlich, South Ashburnham, Mass., writes that he is 21 years old, has a good education, five years' experience in a general store, and wants to find some opening somewhere in the South.

A. W. Thatcher, Box 121 Summerville, N. J., desires information about the South, as does A. R. Towner, Box 1306, Alliance, Neb.

Frank August, 61 South Main street, Wilkes-Barre, Pa., writes that he is a man of experience in business as a buyer of variety goods, and also used to handling help, male and female, and wants to know of opportunities in the South.

Kenneth E. Crooks, Williamsport, Pa., writes to the MANUFACTURERS' RECORD:

"I am desirous of establishing a mill-work warehouse in a growing Southern city of 20,000 population or more. I would expect to buy from Southern mills and sell to the contractors."

LESSONS IN CO-OPERATION.

Banks and Industrial Recovery in Mississippi.

Illustrative of the benefits to be derived from liberal co-operation of financial institutions and local industries is the following from the Hattiesburg (Miss.) News:

"In August, 1908, the First National Bank of Hattiesburg and the National Bank of Commerce were merged. That was 18 months ago. The panic was on in full force and the banks were making an uphill fight of it, but were pursuing the broad policy that the future welfare of the banks depended on the welfare of the industrial and mercantile enterprises of the town, and that these enterprises, struggling through the hard times, must be nursed and fostered and given as great financial assistance as good banking and wise judgment would dictate.

"The wisdom of this course has been demonstrated. The great majority of the enterprises of the town have reached a sound footing and are able to stand alone to a large extent. To the banks along the credit, and now that the hard fight is over, and the banks have reached that point where they are really looking for investment, a glance backward is not out of order.

"The National Bank of Commerce has borne its share in the fight proportionate with its resources. Under a strain so great, the officers of the institution might well congratulate themselves had they been able to weather the storm without loss of resources or deposits; but how great should be their satisfaction when it is shown that the bank has not only held its own, but has gone forward, step by step, to greater strength and influence and usefulness, and today has \$300,528.18

more deposits than at the time the two banks were consolidated, an increase of over 28 per cent."

Referring to this editorial, as pertaining to conditions generally in South Mississippi and throughout the timber belt, Mr. F. W. Foote, active vice-president of the First National Bank of Commerce of Hattiesburg, which is one of the most important lumber points of America, writes to the MANUFACTURERS' RECORD:

"It is true that we are not as exclusively a lumber town as heretofore, owing to the fact that people have developed considerable agriculture as the lands have been cleared by sawmill operations, and this year Hattiesburg handled 30,000 bales of cotton. Nevertheless, lumber is our chief industry, and the towns of this section are largely dependent upon the payrolls of the sawmills. In view of all these facts and conditions, and in view of the further fact that we have had a hard pull, the particulars of which the public has known, we think it now equally as important that the public be informed of the recovery of business in this section."

To Advertise the South.

President Finley announced that the Southern Railway will in the near future, through its land and industrial department, again enlarge the publicity and promotion work which it has carried on for the development of the country reached by its lines. It was necessary to curtail this work somewhat following the business depression of 1907, on account of both general and special conditions. It is now felt that not only the business conditions in the country, but the local situation in the Southeast warrants a larger campaign for the location of industries, the bringing of new settlers and a general development work, that is, the resumption in full of the company's efforts to build up the Southeast. The South will be advertised in Northern European countries by the circulation of specially-prepared matter, and by the use of newspapers, in a way that is consistent with our immigration laws and as is permitted by the laws of the respective countries. The Southern has maintained for some years a European agency of its land and industrial department, with headquarters in London, which will carry on the prosecution of active efforts to interest land seekers and investors from that side of the ocean in the South. The most thorough co-operation possible is to be given to local business and other organizations in the development of the various communities along the Southern system.

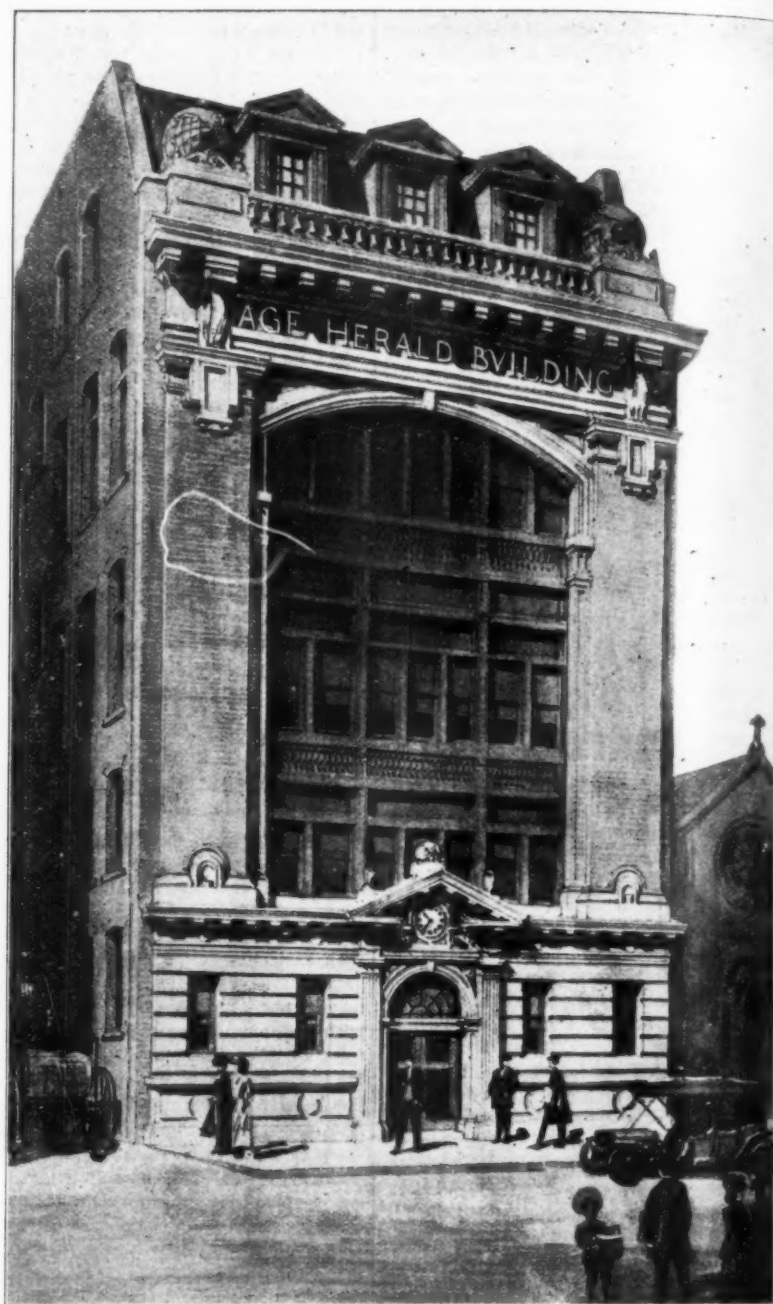
BIG FERTILIZER WORKS.

Plant to Be Established at Baltimore by a Norfolk Concern.

F. S. Royster Guano Co., Norfolk, Va., referring to plans for fertilizer works on the south side of the Patapsco, near Baltimore, writes the MANUFACTURERS' RECORD:

"We have purchased the 'seawall' property known as Tyson's Wharf, containing about 19 acres, with 500 feet water front, and will construct at once complete fertilizer works, including a sulphuric-acid plant. The fertilizer works will have a capacity of about 60,000 to 70,000 tons of complete fertilizer per annum. The acid plant will have a capacity of about 75 tons per day. Plans are now being made, and bids will be asked in a few days for dredging, wharf construction and buildings, as well as power plant. We contemplate putting in some steel buildings, as well as reinforced concrete."

At a cost of \$1,100,000 Chattanooga, Tenn., put up last year 2275 buildings.



THE BIRMINGHAM AGE-HERALD'S NEW HOME.

One of the various ways in which the progressiveness of a city and its surrounding territory is indicated is the growth of its newspaper enterprises. This thought is suggested by the removal of the Birmingham Age-Herald into its new offices and printing plant on Fifth avenue, Birmingham, Ala. Here the publishers have constructed a modern building, which is completely equipped with all the conveniences necessary for the comfort of the employees and to facilitate the gathering and printing of news from all over Birmingham and throughout the South. The building is four stories high with basement, about 42x80 feet in size, the entire front being trimmed with terra-cotta excepting mottled brick shafts on each side. The center of the building to the third story is almost solid plate glass, set in verd antique iron. The publishers are to be congratulated on their acquisition of these improved facilities for the publication of their newspaper, which for many years has been one of the leading dailies of the South.

Moved to Rome.

[Special Cor. Manufacturers' Record.]

Rome, Ga., February 3.

The Sanders & Glover Pants and Tent Factory began operations this week at Rome. This concern, formerly known as the Sanders Overall Co., was moved from Dalton, Ga., to Rome.

J. M. Sanders, the head of the concern, has associated with him in the management of the Rome plant J. M. Glover of this city. They operate 50 pants machines and also have facilities for a large output of tents and canvas horseback bands.

Their plant, which will have about 60 employees, is on the Southern Railroad, in the northern part of the city, upon their own ground and their own especially con-

structed buildings. The site was secured for the concern by the Manufacturers and Merchants' Association of this city. The association has been working for several months to secure the removal of the High Point Soil & Foundry Co. from High Point, N. C., to Rome, Ga.

O. N. Richardson, secretary and treasurer of the High Point plant, announces that the move will be made at once. The entire plant of the concern will be shipped to Rome and its capital will be doubled. The name of the concern after removal here will be the Rome Soil Pipe Manufacturing Co. Its capital will be \$35,000. J. L. Bass of Rome will be president of the company and O. N. Richardson general manager.

THOMAS M. HARDY.

BIG PROJECTS UNDER WAY IN WEST VIRGINIA

[Special Correspondence Manufacturers' Record.]

Charleston, W. Va., February 7.

The new year seems pregnant of great achievements for West Virginia, and unless the ordinary signs fail the entire State is to enjoy a season of development unequalled by anything it has previously experienced. The past 10 years witnessed such great strides along the path of progress as had not hitherto been dreamed of and which it seemed could scarcely again be equaled in the same length of time, but the present promise is that all previous records will be smashed by those of the decade just ushered in, and that the many fortunes accumulated during the last half-score years will be greatly surpassed in both size and number by those piled up in the next half-score.

Nor is the prosperity promised going to be confined to any one section; it will be evenly and symmetrically distributed over the entire State. From the northern "Panhandle," where new manufacturing enterprises are being located and increasing numbers of names added to the weekly payrolls, to McDowell, Mercer and Mingo counties, where the only limit to the output of the coal is that marked by the ability of the great Norfolk & Western Railroad to carry it; from Roane and Lincoln on the west, where great oil fields have been discovered and are being developed, to Jefferson, Berkeley and Hampshire on the east, where great farming and fruit-growing interests are springing up and making fabulous returns for their promoters, and where rich deposits of minerals are being mined at large profit—all through the length and breadth of the entire State the people are awake and alert, eager and insistent upon taking advantage of fortune's tide, now seeming about to run so full.

Nor is it the people of the State alone who are thus interested and seemingly ready to help. From the money centers of the East and from the centers of enterprise and industry at all points of the compass come inquiries for factory sites, for mining properties, for timber lands and for every species of property that promises to yield a fair return upon judicious investment.

There has never before been a time when so many mighty enterprises were under consideration, when such stupendous investments of capital were under consideration for this State. One of these deals in contemplation is the purchase and development of some 400,000 acres of coal and timber lands lying in two or more southern counties. The public is not made aware of the status of the matter just at present, but a short time back there lay in the banks of New York \$24,000,000 wherewith to pay the purchase price of the land—\$12,000,000 to be spent in installing 12 great coal operations and sufficient other money to pay the interest upon these two sums for two or three years. This deal, engaging, as it has, the attention of some of the leading financiers of the country, may not be put through in just its present shape, but that it will finally be consummated in effect nobody conversant with the facts can doubt.

Another big deal, now in a tentative state, contemplates the purchase of all the coal mines in the New River field by the Guggenheims and their operation under one management, with a view to the efficiency and economy characteristic of such combinations. New River coal is as staple as anthracite, and as the area of territory from which it is produced is limited, the far-seeing Guggenheims could not fail to perceive the tremendous advantage

that would accrue to them by securing practically the entire field. This is another deal which, though it may not be consummated at this particular time, nor in exactly the manner, nor by the same people now in contemplation, is yet morally certain to be made at no distant day, thus throwing into the State, to be invested in other enterprises, a good many millions of dollars.

Several years ago a party of capitalists, calling themselves the Gauley Coal Land Association, purchased 170,000 acres of coal and timber lands lying in Nicholas and Greenbrier counties. Having "blocked" up this property in compact shape, the owners placed it on the market to be sold in a body. A firm of Eastern capitalists, with ample money to turn the trick, has been negotiating for this great property and now seems about to close the trade and take it over. It is probably the finest body of undeveloped coal to be found anywhere in this State. It carries the New River measures throughout and the Kanawha measures in part, and the return to the purchasers in royalties would be almost beyond computation. In addition, 52,000 acres of the property is covered with virgin forest, of quality unsurpassed anywhere that timber grows. The development of this property—and it must in the nature of things be begun in a very short time—will give employment to thousands of men and add largely to the numerical strength and financial standing of the State.

The business men and shippers doing business on the line of the Baltimore & Ohio Railroad have been lately complaining of the lack of transportation facilities offered them, and have been meeting together and discussing ways and means for a betterment of conditions. President Willard, the new head of that old thoroughfare, has met their demands with a promise of increased facilities at as early a date as possible, and the consequence is a greatly stimulated enthusiasm throughout the entire northern portion of the State. Throughout the coal fields about Fairmont and in Harrison, Lewis, Barbour and other counties penetrated by the Baltimore & Ohio the feeling prevails that the car supply will soon be such that mine operators can readily secure whatever may be necessary to convey their output to market, and there is such a feeling of jubilation as has not been experienced before in years.

Another matter of tremendous import to the northern portion of the State, and probably ultimately to the entire central portion, is the announced determination of the Pittsburgh & Lake Erie road, a part of the New York Central system, to build up the Monongahela River to Fairmont, and thence on up the Tygarts Valley River to Belington, where it will connect with the Western Maryland, and by means of it with the Coal & Coke, by which means it will tap some of the most valuable coal deposits of the State. The road is now within 20 miles of Morgantown, and the announcement of the intended extension has had the effect to make the undeveloped coal lands of that section jump from \$100 an acre to from \$200 to \$300, at which figures options are being taken on all the available lands in Monongalia county. The Davis and Elkins interests, owning the Coal & Coke Railroad, have also one of the most extensive coal properties in the country. Along the line of their road they have more than 200,000 acres of coal, most of it undeveloped. A great deal of it is the famous Pittsburgh seam, and of such thickness that it will produce many

thousands of tons to the acre. The Coal & Coke is 175 miles in length, and for almost the entire distance it traverses a coal-bearing territory. So that the New York Central people, in making the proposed extension, will secure a coal tonnage that will keep them busy for many a year.

The coal business in this State, while not so profitable to the mine owners as they could wish, is very active, and the men who do the work of getting out the coal are for the most part putting in full time. The condition of the trade, with the demand such as is keeping everybody busy, and yet the price so low as to make necessary the exercise of the greatest economy to keep the mines going, is anomalous. But that is the condition, so far as this section of the State is concerned at least. But all the mines are working and the operators continue to entertain the hope that something will occur to carry the price up to a paying basis.

There is one industry, however, that has no complaint to make with respect to prices, and that is lumber. The rapid disappearance of the hardwood forests and the great demand for their product have combined to make the prices of lumber of the kinds manufactured in West Virginia very high, and the mills are all doing well. The automobile business has so increased the demand for first-class poplar that it has soared to an unprecedented price, and every mill man you meet is anxious to procure a tract of land bearing poplar that he may cut when he finishes his present job. So precious has this wood become that the veneer mills are now taking up all they can secure, paying prices for the logs that a few years ago would have seemed enormous for manufactured stuff. But although to the old-timer it seems as though the forests have about disappeared from the State, there is enough timber still standing to keep many mills busy for years to come and to furnish employment to thousands of men. Good oak tracts are being taken up by the stove mills, and these are paying good prices for timber, cutting it 10 and 12 miles from the railroad and hauling the product to the station on wagons. Representatives of the stovemakers are going up and down throughout the length and breadth of the State taking up all the good timber to be found, no matter in what small tracts, for the stove mill is small and easy to move, and can make a "set" for very little sawing. And, then, cleaning the timber out still closer come the telephone and telegraph pole people and the men who slay the small stuff for the pulp mills.

There are three important lumber operations about to be opened up which will add greatly to the output of the State. One of these is on Meadow River, where the Raines interests purchased a large tract of timber two or three years ago, to which they are now constructing a railroad from the Chesapeake & Ohio at the mouth of Meadow Creek. Another is the proposed new mill of the Cherry River Boom & Lumber Co. at the mouth of Williams River. This company recently purchased 70,000 acres of virgin forest from the Baltimore & Ohio Railroad, in addition to what it already had, with a view to putting in a new operation. The bottom land at the mouth of Williams River was purchased by the company, and a mill will be built and a new town established there before many months. The third big operation in prospect is on the main fork of Elk River in Webster county. Several years ago the Pardee & Curtin Lumber Co. purchased from the Charles Pratt estate in New York 32,000 acres of land covered with as fine a forest as ever grew. If the plans for extending the Western

Maryland Railroad are carried out as laid, that road will in the present year extend its line from the waters of the Tygarts Valley River, in Randolph county, over to the waters of the Elk, and come on down through Webster county to a connection with the Coal & Coke near Sutton. In case this is done, the Pardee & Curtin people will at once begin big operations on their land, both in coal and timber.

In oil and gas the prospects for the year are bright. The new Roane and Lincoln fields are proving even richer than supposed, and new wells are constantly being brought in, while the richest territory yet discovered in the State seems to have been lately brought to light at Shinnston, where the great 3000-barrel well was struck several months ago. Other wells are being put down in this pool, and it is constantly hoped that its limits may be found to be large. Finding such a pool at this time, after years of drilling on all sides of it, causes great hope to be entertained that other rich finds may be uncovered in other equally unexpected places. Meantime in the section about Charleston the gas territory is being constantly extended until it seems that the product could never be exhausted. Within the last few days a well producing 3,000,000 cubic feet daily has been brought in within eight miles of the city—a fact that proves most comforting to those who feared an early exhaustion of the gas supply because of the tremendous drains being made upon it by the great mains laid to carry it to the cities of other States. There is considerable talk of drilling a test well right here in the city with a view to finding whether, gas having been found on all sides, it does not actually underlie the corporation metes and bounds.

GEORGE BYRNE.

STOCKS ON DECREASE.

Inquiries Good in the Birmingham Iron Market.

[Special Cor. Manufacturers' Record.]

Birmingham, Ala., February 7.

The total tonnage of iron disposed of by different interests the past week will aggregate 18,000 to 20,000 tons, most of which were round tonnage lots. Some of the producing companies have opened their books for delivery as far ahead as the third quarter, and an attractive offer might secure business over the entire year 1910. While there is no established base price, it is understood that there has been more iron sold at \$14 than \$14.50 per ton at the furnace. However, sales have been made at latter figures. The most important producing interest still adheres to its asking price of \$15 per ton base. Inquiries are reported good, and stocks are on the decrease. Warrant iron is also being shipped out at a good rate. Production is off some 25,000 tons per month compared with a month or so ago, and such conditions are likely to obtain for several months. In addition to the four furnaces already out of commission, another stack will be blown out this week, which will further reduce production. The Southern charcoal-iron market is in good shape, and prices of \$22 to \$22.50 per ton are strongly maintained.

No changes of any moment are reported in the cast-iron pipe market. Prices which have obtained for the past several months are in effect, and satisfactory business is reported booked from time to time. As far as large contracts are concerned, that feature of the market is a dragging one, but such conditions at this season of the year are naturally looked for; hence no uneasiness is experienced on that score. Following prices are quoted per net ton f. o. b. cars here: Four-inch, \$25; 6, 8 and 10-inch, 23; 12-inch and over,

average of \$22, with a dollar a ton extra for gas pipe; fittings, \$60 per ton at the works here.

The scrap-iron market has shown some slight improvement since last report, though dealers appear to be more interested in piling than shipping old material when a concession in price is asked for. Steel and wrought scrap are in demand at this time more than other specifications. Following prices are quoted per gross ton f. o. b. cars here:

Old iron axles, \$20 to \$20.50.
Old iron rails, \$15.75 to \$16.25.
Old steel axles, \$17.75 to \$18.25.
No. 1 railroad wrought, \$14 to \$14.50.
No. 2 railroad wrought, \$12 to \$12.50.
Dealers' wrought, \$12 to \$12.50.
Old steel rails, \$12.50 to \$13.
No. 1 machinery, \$12.50 to \$13.
No. 1 steel, \$13 to \$13.50.
Old standard car wheels, \$13.75 to \$14.25.
Light castings, stove plate, \$9.75 to \$10.25.
Cast borings, \$6 to \$6.25.

The Veith-Matthews Engine Co. has asked for bids on its new building to be erected at Bessemer, Ala., and work on same is to begin as soon as plans can be rounded up.

The Central Foundry Co.'s plant at Bessemer, Ala., which has been out for some time undergoing necessary repairs, is again in commission.

Mr. A. H. Ford was elected president of the Birmingham Chamber of Commerce to succeed Mr. Frank Nelson, Jr. Mr. Ford is president of the Birmingham Railway, Light & Power Co., and is one of Birmingham's most enthusiastic and public-spirited citizens. In the past his work to this end has been strongly felt, and by electing him to this position there will be a broader field for his work officially.

HAS MANY INDUSTRIES.

Hillsboro's Busy Population of Less Than 9000.

[Special Cor. Manufacturers' Record.]
Hillsboro, Tex., February 4.

This county is one of the richest agricultural counties in the State. It is situated in central Texas, and in the rich black land belt. Under normal conditions it produces 100,000 bales of cotton per annum, and has produced as much as 140,000 bales. It is thought that the census of this year will show a population of nearly or quite 75,000.

The assessed values of the county for 1909 was \$29,073,950. Included in those values were the following live-stock: 11,600 head of hogs, 17,167 head of cattle and 20,440 horses and mules.

Lands vary in price from \$25 to \$100 per acre, according to improvements, character of soil and distance from shipping point. The yield per acre of various field crops are 30 to 40 bushels corn, 20 to 30 bushels wheat, 65 to 75 bushels oats, one ton of broom-corn, five to six tons sorghum hay, 100 bushels Irish potatoes, 200 bushels sweet potatoes, 75 bushels tomatoes, 50 bushels peanuts and half to three-quarters bale cotton per acre.

The county is well watered, both Brazos and Nolan rivers running through it, with numerous smaller streams, providing an abundance of water for all purposes, and of good quality. Both shallow and artesian wells are found at depths varying from 50 to 75 feet for shallow wells and 400 to 1700 feet for artesian wells.

All told, the county has 90 steel and wooden bridges, and many miles of graded gravel roads. Six different systems of railroad traverse some portion of the county, giving a total of 175 miles in the county.

Hillsboro is the county-seat, with a population of about 8000. Its courthouse is

among the most handsome and costly of the State. It is built of a cream-colored stone, is three stories high, crowned by a tower rising some 50 feet above the main roof, and in the upper section of this tower is placed a clock having four faces, and upon the stroke of the hours can be heard for quite a distance.

Hillsboro's business center is built up in a very substantial manner, having from one to four-story brick, stone or concrete structures of very pleasing and many of very attractive architecture. One of these is the City Hall, a handsome two-story brick structure just now being completed.

Other properties belonging to the city are its water-works, sewer system and fire department. Its water supply is obtained from three wells, one of 900 and the other two about 1700 feet deep, each of which supplies a very pure free-stone water, which is found to be all right for domestic and steam purposes, there being no mineral in it which makes it unfit for steam purposes. These wells do not flow, but the water is brought to the top by a Laidlow-Dunn-Gordon Company air compressor having a capacity of 600 cubic feet of compressed air per minute. From the water pipes leading from the well the water is conveyed into a large reservoir nearby, and two large Worthington compound pumps take it from the reservoir and force it through the mains over the city. For the purpose of fighting fire the pumps develop a pressure of 100 pounds.

Between 15 and 16 miles of mains, ranging from 6 to 12 inches, carry the water to all parts of the city. Two splendid fire organizations, having hook-and-ladder and hose carts and one chemical engine, with 105 fire hydrants, in connection with the pumping station, constitutes the city's facilities for fighting fires. Another reservoir of 200,000 gallons capacity is to be constructed at once, thus providing a reserve supply for emergencies.

Of concrete sidewalks and street crossings the city has over 20 miles, and is constantly building more. An election to vote on \$40,000 to \$60,000 bond issue for street paving is to be held in the near future. Hillsboro has voted to operate under an act of the last session of the Legislature, which permits cities of this class to adopt the one-third street-paving measure, by which it may require property-owners on each side of the street to pave one-third of the width of the street, thus leaving only one-third to be paved at the cost of the city. This arrangement will enable the city with a \$60,000 bond issue to pave about 30 blocks.

Of private enterprises of the city, the Hill County Cotton Oil Co., with a capital of \$150,000, is an important industry. Mr. Ed. Woodall is president, and he is also Mayor of the city, president of the Board of Trade, and one of the many enterprising men who are using their means for the improvement of the commercial and industrial conditions of their city, county and section. Mr. Woodall's company is now building a large one-story concrete building, to be 80x100 feet, in which it will install a 40-ton ice plant, having purchased up-to-date machinery and appliances, and have a part of it now on the ground. In its cotton-oil mill it consumes between 9000 and 10,000 tons of seed annually.

A compress is another important industry here, which has a capacity of 1200 bales daily. Of the 100,000 bales handled annually by the compress company, from 16,000 to 25,000 bales are brought here by wagons from the surrounding country.

The various railroads entering Hillsboro radiate in six different directions, the Missouri, Kansas & Texas having three divisions here and a payroll of over \$20,000 a month. The citizens have petitioned the Railroad Commission to pass an order re-

quiring the railroads to erect a union depot, and the commission has agreed to take up the question and act on it within the next week, and there is hardly a doubt but the depot will be built, for neither of the three roads is opposing the proposition, while two of them are known to be in favor of it.

The in and out freight traffic is now very large, and increasing rapidly.

Two very strong wholesale grocery houses are domiciled here and doing an annual business of nearly \$2,000,000.

Hillsboro has also one of the largest novelty manufacturing concerns in the State, if not in the South. This is the Texas Novelty Advertising Co., which makes calendars and a great variety of advertising novelties. It has 10 salesmen on the road, who cover Texas, Oklahoma, South Kansas, Missouri, Louisiana and other States.

One daily, the *Mirror*, and two weekly papers and an extensive commercial printery are among the important enterprises here.

A flour mill, four gins, two manufacturers of candy, each doing an extensive wholesale business; four banks with capital and surplus of \$430,000 and deposits of over \$1,000,000, which is an increase of \$250,000 over deposits at same date last year, are other industries here.

Appropriation of \$60,000 has already been provided by the United States Government for a postoffice to be erected here at once, and the grounds have been purchased by the Government upon which to build it.

The city has free delivery, four carriers, and 10 rural routes radiate from here.

A cotton mill is another important industry here, with 2500 spindles and 80 looms, running on 6 to 12-ounce ducks. This business, so says A. L. Smith, president and business manager, has been very profitable, earning satisfactory dividends, and especially for the last 16 months they have been running day and night. They employ 80 to 100 hands, and their payroll runs from \$2500 to \$3000 per month.

There is an active Board of Trade, with Ed. Woodall, president; A. L. Blanchard, secretary, and H. H. Simmons, first vice-president and chairman of the advertising committee.

An interurban railroad project is now being considered by Hillsboro Board of Trade and business men, to be run from here to Dallas, another from Fort Worth to this point, and then to be extended to Waco. If built, that would certainly be a big dividend proposition.

WM. C. CLOYD.

Buys Timber Land in West Virginia.

Negotiations for the purchase of timber lands in Preston and Tucker counties, West Virginia, have been closed by G. G. Stitzinger, A. E. Stitzinger, R. A. Stitzinger and W. H. Gillespie, all of New Castle, Pa., and E. E. Stitzinger and J. E. Stitzinger of Woodbine, W. Va. The property embraces about 8886 acres, and contains poplar, oak, basswood and other hardwoods, all of which is virgin forest. About 5634 acres were purchased in fee, and contains a number of mineral deposits, including limestone, while the remainder of the purchase was for the timber rights only. The purchasers have incorporated the Glade Lumber Co., with a capital stock of \$200,000, to develop the minerals and timber, and it is stated that the Hope Oil & Gas Co. of Manington, W. Va., which has a lease for the oil rights on part of the property and will also probably begin development within a short time.

Regarding the plans of the Glade Lumber Co. the MANUFACTURERS' RECORD is advised that it will expend approximately

\$125,000 for the erection and equipment of a hand-saw mill, machine shop, electric-light plant, hotel, 40 dwellings, etc. It will also construct a seven-mile standard-gauge railway on the Cheat River to facilitate its operations. Development will begin in the early spring under the management of J. E. Stitzinger of Woodbine, W. Va., and the company will sell its output through the Newcastle (Pa.) office of G. G. Stitzinger & Co., which also handles the output of the mills at Woodbine.

Brick Manufacturers.

The twenty-fourth annual convention of the National Brick Manufacturers' Association is being held in Pittsburg, Pa., this week. Among the interesting papers on the program are: "Artistic Qualities of Burned Clay Products," by H. C. Mueller, Trenton, N. J.; "A Trip Through a Modern Pottery—Its Construction, Operation and Products," by H. E. Ashley, Pittsburg, Pa.; "Modern Brickyard Equipment," by Jos. L. Cite, Fishkill-on-Hudson, N. Y.; "Practice versus Theory in Freight Transportation," by John F. Lent, Pittsburg, Pa.; "The Lure of the Clay Bank," by D. V. Purington, Ocean Springs, Miss.; "Ideals Plus Horse Sense in Publicity Work," by Robert Frothingham, New York, N. Y.; "The Significance to Brick-makers of the Revolution Now Taking Place in Domestic Architecture in America," by Donn Barber, New York, N. Y.; "Brick-Paved Highways," by A. B. Lee, Cleveland, O.; "The Small Brick Plant and Its Relative Economy as Compared to the Large Plant," by W. D. Richardson, Columbus, O.; "Advantages of Artificial Draft as Compared With Natural Draft in Drying and Burning Brick," by Ferdinand Vogt, Milwaukee, Wis.; "Producer Gas as a Fuel for Burning Clay Ware," by Geo. C. F. Vater, Kansas City, Mo.; "Utility and Economy of Open-Top Kilns as Compared With Down-Draft Kilns," by Anton Vogt, Ada, Okla.; "Are Brick Plants Discriminated Against by Fire Insurance Companies? If so, What is the Remedy?" by T. C. Lundy, Knoxville, Tenn.; "Brickmaking in Holland—Past and Present," by Fritz Koch, St. Paul, Minn.; "Some Critical Observations of the Brick Industry," by A. V. Bleininger, Pittsburg, Pa.; "Some Observations on the Clay Column from a Stiff-Mud Machine," by Paul E. Dummer, Charleston, W. Va.

The American Ceramic Society, the National Paving Brick Manufacturing Association, the National Clay Machinery Association and the Clay Products Association, all of which are affiliated with the National Brick Manufacturers' Association, will also hold their convention sessions during the present week.

No exhibition of machinery was held this year, but a number of companies have private exhibits at various places convenient to the headquarters.

For Irrigating Texas Lands.

It was announced during the week that Judge D. B. Chapin of McAllen, Tex., and associates have arranged for further irrigation facilities in Hidalgo county. The plan is to irrigate 100,000 acres in the vicinity of Chapin by means of an irrigation canal 35 miles long and laterals aggregating over 50 miles in length. Engineers are now in the field preparing to undertake the construction necessary. The canal will intersect the Rio Grande southwest of McAllen and be extended in a northeasterly direction, following the natural drains, to connect Concepcion and San Jose lakes, which will form an immense reservoir. During eight months of the year this reservoir will have gravity feed, and for emergency purposes pumping stations will be provided.



A VIEW OF THE HARBOR OF PASCAGOULA.

PASCAGOULA'S COMMERCE.**Its Importance in Handling Products of the Forest and of Agriculture.**

[Special Cor. Manufacturers' Record.]

Scranton, Miss., February 3.

The port of Pascagoula, lying on the shores of Mississippi Sound and the Pascagoula and Escatawpa rivers, embraces three cities, Pascagoula, Scranton and Moss Point, and the unincorporated village, Escatawpa. The aggregate population of these four places is 22,000. The first three places are connected by an electric railway of the Pascagoula Street Railway, Light & Power Co. six miles long. The last place may be reached by a ferry or by the Pascagoula Northern Railroad, which will be ready for traffic by March 1.

The port of Pascagoula handles in commerce principally lumber and timber, aggregating annually nearly \$5,500,000 in value. In the calendar year 1908 the total exports and imports had a value of \$8,998,915. They included yellow pine lumber and timber amounting to 205,338,000 feet for foreign ports and 21,256,000 feet for domestic ports, these shipments requiring 347 vessels of a total tonnage of 308,569 tons; turpentine, resin, pecans, wool, shingles, sugar-cane, syrup, fish and oysters. Among the imports were coal, saw logs and crossties. In 10 years the outward-bound commerce has increased from \$2,051,312 to \$5,408,915. If we had accurate data of the amount of cattle, country produce,

chickens, eggs, etc., raised in the neighboring country and brought to this place, we would add a respectable sum to the figures given above.

The harbor of Pascagoula is one of the greatest natural harbors in the South, and one upon which the United States Government has already expended several million dollars. It consists of Horn Island anchorage (nine miles from the mainland), over the bar of which there is 23 feet of water; the Pascagoula River from its mouth to its confluence with the Escatawpa River (a distance of six and one-half miles), from the confluence of the Pascagoula and Escatawpa rivers to the docks of the Pascagoula Northern Railroad (a distance of four and one-half miles). This gives a land-locked harbor 11 miles in length (22 miles of space for wharfage) and of an average width of 300 feet. From the mouth of the Escatawpa to the mouth of the Pascagoula the Government has dredged out a channel 18 feet deep, and is now at work with a dredge especially built for the purpose, deepening the river to 22 feet. Large iron steamers, such as the British steamship Strathlyon, of 3022 tons, ascend the Pascagoula and Escatawpa rivers to the docks of the Pascagoula Northern Railroad, and loading down to 17 feet, descend the rivers under their own steam to the Horn Island anchorage, where they finish loading down to 22 feet, when they put to sea. Large three-masted seagoing vessels, such as barks and three-masted schooners, ascend the Escatawpa several miles above the docks of the Pascagoula & Northern Railroad to load at the mills. The illustration that accompanies this article gives a good view of the harbor at

the confluence of the Escatawpa and Pascagoula rivers. The photograph was taken on the afternoon of January 29, 1910, a few hours after the large steamer *Hermes* had descended the river with a cargo of 1,500,000 feet of lumber, she going to the Horn Island anchorage to finish her loading. The large iron steamer seen in the middle ground is the *Upland*, from Helsingborg, and is loading with lumber direct from the mill. On the day the photograph was taken there was loading in the harbor four large iron steamships, 15 large three-masted schooners and nine large seagoing barks, 28 in all, with a total tonnage of 19,369 tons.

The Pascagoula Northern Railroad, that now extends from Moss Point to Evanston, on the Mobile, Jackson & Kansas City Railroad, a distance of 45 miles, is now extending its line from Moss Point to Scranton, a distance of four miles, and by the time this article reaches the **MANUFACTURERS' RECORD** this part of the road will have been completed and ready for service. It is expected that a full train service will be put between Scranton and Evanston by March 1. The work of extending the road from Evanston to Leaks-ville is now in progress, and as soon as connection is made at Leaks-ville the Pascagoula Northern will, via the Vinegar Bend and Mobile & Ohio, give the port of Pascagoula direct connection with the iron and coal regions of Alabama and Tennessee on the north, and also with the largest undeveloped timber section in Mississippi. The completion of this road, with its northern connections, means the dawn of a new era for the port of Pascagoula and the Gulf coast.

CHAS. E. CHIDSEY.

For Chattanooga.

At a recent meeting of the Chamber of Commerce of Chattanooga, Tenn., the following officers were elected for the ensuing year: Messrs. John A. Patten, president; W. E. Brock, vice-president; Herbert Bushnell, treasurer, and R. B. Davenport, W. E. Boilleau, W. S. Raulston, W. W. Barnes and F. A. Seagle, directors to fill expired terms. To uphold the administration of Mr. Patten in its work for Chattanooga about \$10,000 has been pledged by various members, which promises that during the present year the Chamber of Commerce will be exceptionally active in making known the city's resources and possibilities. At a dinner held immediately after the election of officers promises of support in this work were tendered Mr. Patten by many of Chattanooga's leading business men.

Building at Nashville.

[Special Cor. Manufacturers' Record.]

Nashville, Tenn., February 7.

The Tulane Hotel will be remodeled and reconstructed at a cost of \$150,000 to \$200,000.

The Tennessee Oak Flooring Co. has taken out a permit for a building to cost \$100,000.

The Nashville Skirt Manufacturing Co. is making an addition to its plant to cost \$10,000 for the manufacture of women's underwear.

The city has voted \$300,000 bonds for a new high-school building to cost in the neighborhood of \$500,000. Major Stahlman is president of the board.

ALEXANDER HELPER.

TO RECLAIM 3200 ACRES.

Northern Farmers Settling on Louisiana Lands.

[Special Dispatch to Manufacturers' Record.]

New Orleans, La., February 8.

At the annual meeting of the St. Charles Land Co., held here today, announcement was made that plans have been perfected for the immediate drainage and development of an initial unit of 3200 acres out of the nearly 14,000 acres owned by this company in St. Charles parish, 15 miles from New Orleans. This is one of the first companies representing outside investors exclusively that became interested in drainage work in Louisiana. G. A. McWilliams, an experienced and conspicuously successful drainage contractor of the North, is president of the company, and among the stockholders are a number of the most substantial farmers, landowners and bankers of Bureau county, Illinois, the home county of Mr. McWilliams. The general financial plan of the company was worked out by L. B. Langworthy of Chicago, fiscal agent, and the last of the \$150,000 worth of stock subscriptions required have just been closed up.

The first development of 3200 acres will be commenced at once on engineering plans worked out by John A. Kruse of Chicago, engineer in charge of the enterprise, and the entire tract will be ready for cultivation this fall. Already 460 acres have been sold to Northern farmers at \$75 per acre. It is proposed to sell the remainder of the tract in holdings of 10 acres upward. After the first 1000 acres the price will be advanced. In addition to the farm tracts, a rural townsite has been planned along Bayou Des Allemands, which will be named Beulah.

Attending this meeting were about a dozen of the Bureau county stockholders, some of whom had never been here before. All, however, are enthusiastic over the possibilities of development, and the opinion is unanimous that the opportunities for most profitable operations here will shortly attract the attention of investors and farmers from all over the country.

ALBERT PHENIS.

IN HIGHLAND KENTUCKY.

Recent Growth in Many Lines at Middlesboro.

[Special Cor. Manufacturers' Record.]

Middlesboro, Ky., February 4.

During the past year this mountain city has enjoyed a splendid growth. There is a realization of public spirit and civic pride in this city which might well be patterned after by many Southern centers. "Unification," remarked Mayor E. S. Helburn, "is our watchword of progress. The people of Middlesboro believe in the old adage, 'in union there is strength.' It is better to put our heads together than to put our heels together. It is better to lock shields than to lock horns, and believing in this, we are all pulling together to make Middlesboro one of the most attractive and substantial cities in this mountain section of Kentucky."

The most notable improvement in this city has been the extension of concrete sidewalks, so that now all of the business portion of the city, and almost all of the residential portion, have these splendid pavements at a cost of \$40,000. Sanitary sewers have been constructed throughout the city at a cost of \$10,000. In the eastern portion 25 new concrete residences have been erected, ranging in value from \$1000 to \$3500. It is a fact worthy of note how many Southern towns and cities are using cement in building operations, all of which seem to give entire satisfaction. Three new bridges of wooden structure and concrete foundations have been



CITY NATIONAL BANK BUILDING, PADUCAH, KY.

To be erected; 72x115 feet; 10 stories; steel frame; reinforced concrete floors and roof; walls also fireproof; marble, terrazzo, mahogany veneering, etc.; steam heat; three electric elevators; electric lighting; telephone system, etc.; cost \$200,000; architect, Wm. L. Brainerd, Paducah; contractor, Falls City Construction Co., Louisville, Ky.

built throughout the city at a cost of \$15,000. In white and colored school building there has been an expenditure of \$55,000, while \$25,000 has been put aside to make the City Hall a matter of pride.

Extensive operations in the coal fields have been under way, and it is the purpose of the citizens to develop from year to year these rich coal fields contiguous to Middlesboro. The new operations in the coal fields have been made with uniform success. The Monarch Coal Co., Shamrock, Ky., is being worked with an output of 100 tons per day, the amount of investment, \$25,000, covering 400 acres. Hignite Coal Mining Co., Shamrock, Ky., has leased 1300 acres. Its investment is \$60,000 and output 200 tons of coal per day. Fork Ridge Coal & Coke Co., Fort Ridge, Tenn., has opened up new coal mines with an investment of \$100,000, with a daily output of 500 tons. Lee Coal Co., Middlesboro, controls 600 acres in Lee county, Virginia. There are eight workable seams on this property, with an output of 300 tons per day. This plant cost \$30,000.

This city has a population of 7800, indicating a growth of 50 per cent. in the past five years. A new railroad, the Wasiota & Black Mountain Railway, is now under construction, 12 miles of which has already been built from Wasiota, Ky., at the head of Cumberland River, to the Harlan county (Kentucky) coal fields. The length of this road will be 45 miles. A link of seven miles is under construction from Middlesboro to connect with this line at the mouth of Yellow Creek. The grading on this road will cost from \$10,000 to \$30,000 a mile. This line follows the Cumberland River.

I learn from Mr. John M. Miller, cashier of the Citizens' Bank & Trust Co., that in the city there are three banks, one national and two State, with a capital and surplus of \$200,000; deposits, \$400,000; resources, \$650,000.

Mr. Fred Moomau, representing the Tri-State Insurance & Realty Co., says about realty values of Middlesboro:

"Conditions are normal, and investments more than satisfactory. With 60 coal operations within 15 miles of the city, containing 25,000 people, splendid agricultural inducements, good pure water, health and a climate unexcelled, it is no wonder that over 300 per cent. in the increase of

property has taken place. All we want now is the incoming of the smaller manufacturing wherein wood and iron enter—knitting mills, barrel and stave factories, all of which would do well here."

Rogan Bros., who make a specialty of miners' and builders' hardware, says:

"At no time in the history of Middlesboro is there such a demand for building materials, which is a sure sign of prosperity and advancement. We look forward to a year of great activity in all the lines of building; in fact, we are now in the midst of an industrial activity which, to say the least, is worth encouraging."

Mr. John Howard, a prominent lawyer and a well-known civil engineer, says in speaking of the future of Middlesboro:

"Among our new industries are J. R. Hoe & Son, founders and machinists, a plant valued at \$5000; Middlesboro Mattress Factory, \$25,000; Middlesboro Broom Factory, \$30,000; Middlesboro Knitting Mills, the Central coal yard and many new residences, all indicating an industrial growth of which we are very proud. What we need more than anything else are the smaller factories, and we must have them. Five factors are to be considered in the location of new industries, viz., power, labor, taxation, cost of raw materials and market for products. Of course, there are other factors having secondary bearing upon the question, such as local transportation, sewerage, schools, banking facilities, but the five conditions which I have already stated generally decide the question for the prospective manufacturer. We have these five advantages, and we only ask that those contemplating coming South visit Middlesboro and see for themselves the great natural advantages we offer to the manufacturer."

The future of Middlesboro is assured, for the reason that there is a community of interests which pull together, and harmony in the city government as well as among the business men, who let no opportunity pass by to build up and encourage every enterprise having the interest of the city to progress along lines of substantial merit and business endeavor.

ALEXANDER HELPER.

Rail and Steamer Route.

The Annapolis & Claiborne Ferry Co. proposes to operate a line of steamers be-

tween Annapolis and Claiborne, Md., across Chesapeake Bay, in connection with the Washington, Baltimore & Annapolis Electric Railway. The company has applied to the Annapolis City Council for wharfage facilities. It is claimed by the promoters that the time of travel between Baltimore and points on the Eastern Shore in and near Talbot county will be reduced about one hour and a half by this route, while to and from Washington about two hours and a half will be saved.

Jacksonville's Big Clayworking Plant

Among the important plants which have been established because of the industrial activity prevailing in Florida is the South Jacksonville brick and tile factory of Messrs. Telfair Stockton and Robert Gamble. Their plant is equipped for producing 200,000 bricks daily, and it includes eight drying sheds with a capacity of 4,000,000 bricks, and 20 to 30 kilns, each capable of baking 6000 bricks. Other clay products will be produced, including fireproofing flue liners, partition walls, terra-cotta piping, irrigation pipes, etc. The clay is obtained from extensive deposits located on 80 acres of land, and is said to range from 40 to 1000 feet in thickness. Machine and blacksmith shops and an electric plant for furnishing light and power have also been provided. One hundred operatives will be employed, and comfortable cottages have been built for their accommodation. Daniel Cobb, formerly of the Jacksonville Brick Works, had charge of the construction of the plant as its mechanical engineer, and will superintend operations. The firm will operate under the title of the Gamble & Stockton Brick and Tile Works.

Farmers Change Policy.

Eric Rauscher, cashier of the Bank of Erin, Erin, Tenn., writes to the MANUFACTURERS' RECORD:

"The farmers in this immediate section, taken as a whole, are in better financial condition than ever before, owing to the fact that they are now giving their whole attention to the farming of their lands, where for the past 15 or 20 years they neglected their farms to haul timber, etc., on public works. Part of their prosperity is, of course, due to the prices they are now able to get for their products at a very small increase in cost of production. We are securing accounts from many of them, and what they invest is usually here. Several lost considerable sums in the 'town-plot' propositions out West a few years ago, and go slow in investing anywhere except at home. A good many settlers are coming in from the Northern States, and the prospects are bright for good year's business."

Settlers Coming In.

Mr. A. L. Bowers, president Palestine National Bank, Palestine, Tex., writes to the MANUFACTURERS' RECORD:

"The condition of the farmers financially in this vicinity is better than it has been for several years past. A good many of them have money deposited in the bank. I believe the general business and industrial outlook is good, and that the surplus money from cotton and other crops will be mostly used in local investment and development work. There are a few settlers coming into this immediate section from the Northern and Eastern States."

Among the corporations engaged in the development of the gas and oil resources of Tennessee is the Tennessee Oil & Gas Co., which operates in Overton county, near Netherland. This company completed its third new well last week, and this well can produce every day 50 barrels of high-grade petroleum. The company has its main office at 306 Candler Building, Atlanta, Ga., and W. W. Wisdom is treasurer.

ALACRITY OF SOUTHERN COMMERCIAL BODIES FOR NEW INDUSTRIES

WHAT IS YOUR TOWN DOING?

The MANUFACTURERS' RECORD will be glad to receive from responsible correspondents in every town in the South brief items of news about business conditions and the opportunities for industrial enterprises. This information is desired for publication without cost of any kind to the sender, and regardless of whether the writer of the letter is a subscriber or not. The MANUFACTURERS' RECORD accepts no paid town write-ups. It seeks information of this kind from commercial and industrial organizations and from municipal authorities in every town and city of the South.

CHANCE FOR INDUSTRIES.

Board of Trade,
Florence, S. C., February 5.

Editor Manufacturers' Record:

This city and the Florence Board of Trade are offering liberal propositions to manufacturers, and desire particularly to interest brickmakers, carriage, buggy and wagon factories, woodworking, sash, blind and door manufacturers and machine shop and foundry people. There are no manufacturing concerns of these kinds within a radius of 50 miles or more, and the demand here is very great and the prospect most promising.

Florence was a country cross-roads 45 years ago, in the middle of a dense wooded region, practically undeveloped in any of its resources. It now has easily 10,000 inhabitants. Its population has trebled within the past decade. When the county of Florence was formed in 1889 the population of the town did not exceed 2000; since then it has outstripped all of the century-old towns in the northeastern third of the State constituting the great Pee Dee section. It has become one of the most progressive communities in the State. This progress is due to two causes—the wonderfully fertile back country surrounding it and its position as a geographical and railroad center of all the counties of the Pee Dee section. It has become the metropolitan town of this third of the State.

Florence is the point of intersection of the four main trunk lines of the Atlantic Coast Line system. Through it pass the main lines of travel between New York and the East to all Southern points. The great new trunk line from Cincinnati connects here with the main line of the Coast Line from Jacksonville to New York, and the Wilmington, Columbia & Augusta Railroad, which now furnishes one of the quickest trips from Atlanta and the Southwest to Northern and Western points, here makes its principal connections for the North and South. Here are Coast Line freight yards and one of the largest of its machine shops. It is the routing headquarters for the express and mail service of this State. Fifty freight trains and 30 passenger trains are made up, arrive and depart from Florence to the North, South, East and West every 24 hours. The Coast Line has recently constructed one of the handsomest stations in the State in Florence to take care of the enormously increasing passenger traffic through this point, where more than 2000 passengers are frequently handled during the course of a day. A new railroad has just been chartered to connect Florence with the main line of the Seaboard Air Line at McBee, a distance of 40 miles, which, it is said, will be completed within a year.

There is perhaps no city in the State where the hotel service is more commodious and up to date, or which is a more important headquarters for commercial travelers.

The completion of the great new trunk line from Cincinnati will make Florence one of the most important points for coal distribution south of Roanoke. This will unquestionably bring into Florence the highest quality of Pocahontas and New

River coal at a low enough cost to make Florence one of the most desirable manufacturing points in this section of the South, while the distributing facilities for such purposes are unexcelled.

At the last meeting of the directors of the Atlantic Coast Line Company on December 16 plans were adopted for the extension of their lines from Hartsville to the station of Macbee, on the Seaboard Air Line, and thence to Monroe, N. C., to the city of Charlotte, thus giving to Florence as the principal terminus a distributing point in this State another feeder of great importance and value. The Alcolu Railroad, under the able management of Mr. D. W. Alderman of Alcolu, which is already crossed into Florence county, will most undoubtedly be built into Florence within the course of the next 12 months, while plans are now under way for the construction of a line from Florence to Georgetown. The latter roads pass through and will develop some of the finest agricultural and timbered lands in the State, and will accommodate a population of more than 20,000 people with railroad facilities which heretofore they have not had. It will thus be seen that Florence forms a hub from which radiate as spokes 19 lines of railroad, permeating every section of naturally the richest region of the State, and passing on to the great markets of the country, to the North, East, South and West.

Florence has four banking institutions and two trust companies, with an aggregate capital of \$500,000 and resources of over \$1,500,000. The city has erected at a cost of more than \$75,000 public schools which, in their hygienic and sanitary systems, are so complete as to have been pointed out as a model for construction in the city of Washington. These schools are under the direction of a graduate of the University of Heidelberg. Their curriculum covers a course of study from the kindergarten to the sophomore collegiate year. The city owns its own water-works, which are supplied from artesian wells driven through rock to a depth of more than 1000 feet, and a bond issue of \$100,000 has within a few weeks of this date been voted by the citizens for the expansion of the water-works and sewerage system. One of the most complete hospitals in the State has been erected and is in operation here. The Federal Court of Northeastern South Carolina was fixed in Florence some years ago, and the courthouse and postoffice built by the Government in this city is one of the handsomest public buildings in the State.

Florence is not only a railroad center of Eastern South Carolina, but is the geographical center of that great agricultural region of the State known as the Pee Dee section. With a population of nearly 22 per cent. and an area of 27 per cent. of the State, this prosperous region yields in agricultural products annually something over \$44,000,000. Farming here is diversified to a wide extent, and the intensive system, with improved farm implements already much in use, is becoming more widespread. This section produces, in addition to the staple crops of cotton and corn, which in the year 1908 had a

value of \$16,000,000 and \$10,000,000, respectively, about 30,000,000 pounds of tobacco, of a value not less than \$3,500,000, and truck of perhaps the same value.

As a trucking country, with its unexcelled transportation facilities and well-adapted soils, the vicinity around Florence is destined to assume as important a place in this industry as the great trucking districts about Charleston and on the Eastern Shore of Virginia. Truck from this region reaches the Northern and Eastern markets just between the Charleston and Norfolk seasons, and its production is extremely lucrative as a business.

The city and the Florence Board of Trade are offering liberal propositions to manufacturers, and desire particularly to interest brickmakers; carriage, buggy and wagon factories; woodworking, sash, blind and door manufacturers, and machine-shop and foundry people. There are no manufacturing concerns of these kinds within a radius of 50 miles or more, and the demand here is very great and the prospect most promising.

JAMES D. EVANS,
Secretary.

JEFFERSON CITY PROSPECTS.

Commercial Club,
City of Jefferson Mo., January 31.

Editor Manufacturers' Record:

The boot and shoe industry is the third industry of Missouri in rank, and in the production of this commodity Jefferson City is the second city in the State of Missouri, being surpassed only by the city of St. Louis.

There is great activity in commercial circles here just now. This year the State votes on a proposition to erect a five-million-dollar capitol building in this city, and the indications are that the proposition will carry overwhelmingly at the polls, in which event it is expected that the population of our city will double within a few years.

The Missouri Pacific Railway Co. will this year extend its branch line from Bagnell to Springfield, Bagnell, 40 miles south of here on the Osage River, being the present terminus of the extension. The connection with Springfield will give Jefferson City manufacturers and jobbers a direct outlet to the Southwest.

THOS SPEED MOSBY,
Secretary.

READY TO ASSIST.

Commercial Club,
Byers, Tex., February 3.

Editor Manufacturers' Record:

We have nine-cent natural gas for factories in abundance only four miles from the Clay county oil and gas fields, with gas and oil underlying. Will offer splendid inducements for the location of the following: Cottonseed-oil mill, six gins to draw from; flour mill, creamery, broom factory, woven-wire fence and wire novelties, compress, broom factory, brick and tile works, cement-block plant, wholesale poultry and produce house, water-works and sewerage, planing mill, comfort and quilt factory, mattress factory. The Byers Commercial Club stands ready to assist any worthy enterprise.

FRANK M. WHITE,
Secretary.

HAS NATURAL GAS.

Commercial Club,
Sapulpa, Okla., February 4.

Editor Manufacturers' Record:

Sapulpa is in the center of the largest oil and gas field in the world. We have an unlimited supply of natural gas. The city is at the division point for three lines of the Frisco system, and 22 passenger

trains arrive daily. The Frisco Railway payroll amounts to about \$125,000 monthly.

The \$300,000 packing-house plant will commence operation within a few weeks. A cotton gin, two brick plants and an iron foundry are in operation in our city. The cotton compress, one of the largest in the State, handles from 15,000 bales to 25,000 bales per season.

We would be glad to correspond with anyone able to locate and successfully operate any industrial plant, because we feel that we have an unusually good location for them.

GLEN L. BRUNER,
Secretary.

OFFERS INDUCEMENTS.

Business Men's Club,
Frankfort, Ky., February 3.

Editor Manufacturers' Record:

The Business Men's Club wants for Frankfort:

Twenty-five thousand population by or before 1912, and manufacturers to investigate freight rates, cheap fuel and labor supply.

More wholesale houses; railroads inter-urban lines and home-builders; young men with capital to invest, old men with bank accounts and live, wide-awake people who do things.

The Business Men's Club will give substantial encouragement to legitimate industrial enterprises seeking or desiring a location in the city. The club has to offer, in the way of inducements, several thousand dollars and tax exemption for a period of five years to factories employing a large number of hands. Correspondence solicited and information cheerfully and promptly furnished.

JOHN H. CASSELL,
Secretary.

WATER-WORKS PLANNED.

Lexington, Ky., February 4.

Editor Manufacturers' Record:

The city of Millersburg, Ky., requested me to get things going for the water-works. Also they have use for a good hotel. I will give you a few facts:

The city has in the treasury right now some \$15,000. The people are very progressive. The city has a good location, lies on the Louisville & Nashville Railroad and has quite a little commerce. The freight receipts for last month's shipments were about \$3400.

Taxes are very low, and property is of good value. The city electric-light plant will be completed about the end of March, and at the same time I will start to build the commercial light plant, which will be in operation about the end of June. The rate for electric light will be 10 cents K. W. H., and for power about one-half of it. The population is at present about 1800, and is rapidly increasing. The commercial light plant will be the property of a corporation.

F. O. SIEBERT.

Detailed information about towns seeking manufacturing enterprises and offering specific advantages for development and business opportunities can be found under the head of "Classified Opportunities" on pages 76 and 77, and under "Cities, Towns and Railroads Inviting Factories" on pages 111, 112, 113 and 114.

The South Carolina Corn Breeders' Association has been organized at Columbia with A. D. Hudson, president; L. L. Baker, vice-president, and R. K. Hayes, secretary and treasurer. Mr. A. E. Gonzales of the Columbia State has given \$1000 to be used as premiums for the best results in corn breeding within the next two years.

RAILROADS

[A complete record of all new railroad building in the South will be found in the Construction Department.]

FINE RECORD FOR SAFETY.

Norfolk & Western Shows Remarkable Success in Carrying Passengers.

It is gratifying to be able to record such remarkable safety of railroad operation as that shown by the Norfolk & Western Railway Co. in the handling of its passenger business during the last five years. It was said that this road had not killed one passenger on any of its lines for a long time, but in response to an inquiry as to whether this was true, an official replies that from 1905 to 1909, inclusive, a period of five years, there were only 10 passengers killed on the road, yet it appears, upon an examination of data concerning each case, that in not even one instance could death be attributed to neglect on the part of the railroad company or its employees. In fact, only one of the 10 deaths was the result of a train accident, and the man in that case would not have been killed had he not been standing on the platform of a car instead of being within the vehicle, as he should have been. Four of the deaths occurred in 1905, one man falling from the platform of a moving train, another while intoxicated falling inside of a car and striking his head, causing injuries which resulted in death; a third jumping from a moving train and falling under the wheels, and a fourth falling from the platform of a car when a derailment occurred. There were two deaths in 1906, one of an intoxicated man who fell from the platform of a moving train, and another of a man who jumped from a train in motion. In 1907 also two deaths occurred, one man either jumping or falling from a moving train, and the other attempting to leap from one train to another. In 1908 and 1909, respectively, one accident happened, each being caused by either jumping or falling from a moving train. It will be observed particularly that only one of the fatal accidents resulted from any mishap to a train.

During the five years under consideration the Norfolk & Western carried 21,331,720 passengers, so that the deaths were less than 1 in 2,000,000, and in 1908 and 1909 they were only 1 in about 5,000,000, the passenger record for those years showing nearly 5,000,000 passengers carried in each.

Concerning this very superior degree of safety, President L. E. Johnson writes that he is of the opinion that this record is the result of the condition of track and equipment, together with close supervision of operation, which almost entirely eliminates train accidents. Another factor is the loyalty of the company's men and the general observations of its rules. President Johnson says it is not claimed that all rules are observed literally; there are flagrant violations, but as a whole it is known that the rules and regulations are generally observed by the men in charge of the handling of both passenger and freight trains over the company's lines.

New Equipment, Rails, Etc.

The Baltimore & Ohio Railroad Co. announces the award of rail contracts amounting to nearly 80,000 tons, thus: Maryland Steel Co., Sparrows Point, Md., 25,000 tons; Carnegie Steel Co., Pittsburgh, 24,850 tons; Illinois Steel Co., Chicago, 21,700 tons; Bethlehem Steel Co., Bethlehem, Pa., 7150 tons. The last is for open-hearth rails, as are 7600 tons of the order to the Maryland Steel Co. and 11,500 tons of the Illinois Steel Co. Titanium alloy will be used in 3000 tons of the Maryland Steel Co.'s contract. All the rest

will be Bessemer rails. The weight of rails is as follows: 17,500 tons, 100 pounds per yard; 58,500 tons, 90 pounds per yard; 3000 tons, 75 pounds per yard. The money value of these contracts is about \$2,300,000. Deliveries are to begin this month, and are to be completed by August.

The Chicago, Rock Island & Pacific Railway is reported to have ordered 50 Consolidated locomotives and 25 Pacific type locomotives.

The Chicago, Rock Island & Pacific Railway, according to a dispatch, has ordered 400 Hart convertible ballast cars of 50 tons capacity from the Rodger Ballast Car Co. of Chicago.

The Lexington & Interurban Company of Lexington, Ky., will probably be in the market for cars as the result of a fire which destroyed two interurban cars, 16 city cars, one freight car, one construction car and a snow sweeper.

The Baltimore & Ohio Railroad Co. is reported contemplating the purchase of more locomotives.

The Missouri, Kansas & Texas Railway is reported getting prices on 15 chair cars, five dining cars and five postal cars.

The Harriman lines, according to a market report, have ordered 16,000 tons of open-hearth rails from the Ensley (Ala.) plant of the Tennessee Coal & Iron Co.

The Missouri & North Arkansas Railroad is reported to have ordered 20 freight cars of 40 tons capacity from the American Car & Foundry Co., St. Louis.

The Chicago & Alton Railroad is reported to have ordered 20,000 tons of open-hearth rails from the Illinois Steel Co.

The Missouri & Pacific Railway is reported contemplating the purchase of freight cars.

The two gasoline electric motor cars ordered by the Southern Railway from the General Electric Co., Schenectady, N. Y., and now building, will have two compartments, one for 14 passengers and another for 38 passengers. The cars will be 55 feet long, of which nearly 11 feet will be occupied by the engine-room. There is a center entrance as well as a rear entrance. The cars are capable of a speed of 60 miles an hour.

The Kansas City Southern Railroad has ordered 600 tons of bridge steel from the Lackawanna Steel Co. of Buffalo, N. Y.

The Baltimore & Washington Transit Co. of Washington, D. C., will, according to a dispatch, operate gasoline motor cars on its line at Washington.

The Charleston (S. C.) Consolidated Railway, Gas & Electric Co. is reported to have ordered 516 tons of rails for extensions, of which 341 tons will be seven-inch girder rails and 157 tons T rails.

An officer of the Charleston (S. C.) Consolidated Railway, Gas & Electric Co. writes that an order has been placed with the J. G. Brill Company of Philadelphia for four semi-convertible single-truck cars and four open double-truck cars.

A press report says that the Santa Fe system has lately placed a heavy equipment order, including 10,000 freight cars, 47 passenger locomotives and 266 passenger cars.

The Pennsylvania Railroad, according to a dispatch from Pittsburgh, has ordered 50 locomotives from the Baldwin Works, Philadelphia, in addition to the locomotives which it is building at its own shops.

A market report says that the Pennsylvania Railroad, the Baltimore & Ohio Railroad and the Southern Railway are expected to purchase steel underframes for a large number of freight cars. It is also expected that the Harriman lines will purchase some steel freight cars to be delivered this year.

The Pennsylvania Railroad is reported to have ordered 800 tons of bridge steel from the Easton Steel Co. of Pottsville,

Pa., to be delivered at Baltimore. It is estimated that the total contracts of this railroad at Baltimore will demand from 12,000 to 15,000 tons of steel.

New Railroad Plans.

Among the railroad propositions recently reported are the following:

Denver & Gulf Railroad Co. of Texas, with capital \$100,000 and headquarters at Texhoma, Sherman county, Texas. The proposed line is from Texhoma westward along the northern boundary of Texas about 100 miles. The incorporators are W. A. Evans, H. C. Umsted, James Hicks, J. L. Williams, R. R. Hargis, W. A. Turner, W. R. Russell, W. D. Furber, A. Young Ingham and J. W. Elliott.

Gulf, Delta & Northwestern Railroad Co., capital \$2,000,000, to build a line about 35 miles long from Port Barre to Moreauville, La. It may also extend to other points. The directors are E. B. Williams, O. H. Williams, C. W. Robinson of New Orleans, D. C. Scarborough of Natchitoches, La.; John T. McElroy of Odessa, Tex.; E. E. Overstreet and Snelson Chesney of St. Louis, Mo.

Cincinnati, Newport & Licking Valley Railroad Co., capital \$20,000, to build an electric railway about 55 miles long from Cynthiana, Ky., to Newport, Ky., opposite Cincinnati, O. The incorporators are R. W. Day, F. L. Fuller and Wade H. Lail.

South Carolina & Western Railway Co., capital \$500,000, which proposes to build a line from McBee via Hartsville to Florence, S. C., about 35 miles; headquarters at Hartsville. The incorporators are W. R. Bonsal, J. E. Hancock, Chas. Gibbons, S. O. Bauerseld and Samuel Lawrence, all of Hamlet, N. C. Among the places which will be touched by the line are Stokes Bridge, Swift Creek, High Hill and Darlington, S. C.

San Antonio, Rio Grande & Tampico.

The San Antonio, Rio Grande & Tampico Railway Co. has been chartered to build a standard-gauge line from San Antonio, Tex., southwest to a point on the boundary of McMullen and La Salle counties, midway between the Nueces and Frio rivers, about 90 miles; headquarters at San Antonio; capital \$90,000. The incorporators are J. F. Edwards, H. M. Aubrey, W. A. Cullen, A. L. Matlock, Henry C. King, Jr., Harry Hyman, all of San Antonio, and A. B. Hedden, Plainview, N. J.; C. Stuart Simons, Bert S. Harrison and George W. Nock, all of New York.

Mr. Nock, who is the constructing engineer, says the line will be pushed as far south as Tampico, Mexico. A few miles have already been graded. Owing to the fact that all financial arrangements had not been made, work so far has been slow, but a large force will now be put in the field.

The road will run in almost a straight line from San Antonio to Brownsville, or a point nearby, and after crossing the Rio Grande will follow the Gulf coast to Tampico. One of the richest agricultural regions will be opened by it. J. F. Edwards of St. Louis and a number of San Antonio capitalists are the promoters. A bonus of \$100,000 will be given them by San Antonio business men as soon as the line has reached the Rio Grande and is in operation.

Small Roads Absorbed.

Dispatches from St. Louis announce that the stockholders of the St. Louis, Iron Mountain & Southern Railway (Missouri Pacific system) have approved the absorption of 23 subordinate lines of the company in Missouri, Arkansas and Louisiana. The capital stock of the company is increased by \$60,000,000 to \$190,000,000. The

bonded debt is increased \$25,000,000 for improvements. The lines absorbed are as follows: Arkansas & Louisiana, Arkansas Midland, Arkansas Southwestern, Brinkley, Helena & Indian Bay, Coal Belt, El Dorado & Bastrop, Farmersville & Southern, Garland Western, Gurdon & Fort Smith, Gurdon & Fort Smith Northern, Herrin Railway, Herrin & Johnston City, Kansas & Arkansas Valley, Little Rock & Hot Springs Western, Little Rock & Monroe, Little Rock Junction Railway, Mississippi River, Hamburg & Western, Natchez & Western, New Orleans & Northwestern, Pine Bluff & Western, Springfield Southwestern, St. Louis, Watkins & Gulf and Wabash Southern.

Norfolk & Western's Busy Year.

A dispatch from Richmond, Va., says that the Virginia Corporation Commission has approved the plans of the Norfolk & Western Railway for a projected cut-off or detour line around Petersburg, Va. This proposed line will be 10 miles long, and will be used by freight trains so as to avoid certain grades. It will extend from Estes, three miles west of Petersburg, to Poe, on the east of the city, and will go through the southern suburbs. Connections will be made with the Atlantic Coast Line and the Seaboard Air Line. It is said that contract will be let as soon as possible, and that bids will be received within 10 days. Altogether the work at Petersburg will amount to about \$850,000, including an addition to the station and improvements to the passenger yards.

According to a report from Roanoke, Va., the Norfolk & Western Railway will have under contract before the end of this year various improvements and additions to the value of about \$9,000,000, including the foregoing and other work previously referred to, covering the new equipment lately announced, and double-tracking and small extensions.

Baltimore-Washington Electric.

The Washington, Baltimore & Annapolis Electric Railway Co. announces that on March 1 it will begin the operation of cars into the heart of Washington city, according to the arrangement previously announced. The line ever since it began operation has had a station in the heart of Baltimore, but at the Washington end its terminal was at the outskirts of the city, necessitating a transfer to the street cars in order to reach downtown. The new arrangement will enable the through cars of the company to run to a new terminal near the Treasury Building in Washington, so that passengers will not have to change cars excepting to reach parts of Washington remote from the center of the city. The company also proposes to increase its round-trip rate 20 per cent., but this will include in Washington a free transfer to the street railway. The line has been in the hands of receivers for several months, and those officials announce that it is expected that the improved facilities, in addition to the increased rates, will enable it to earn a profit on its business.

Pocahontas Connecting Railway.

The Pocahontas Connecting Railway Co., according to a report from Fayetteville, W. Va., has filed papers showing its proposed lines in Raleigh county. The Summit division begins at Cirtsville, a point on the Virginian Railway, and extends to a point near the mouth of Stovers Branch, on Clear Fork of Coal River. A tunnel 2250 feet long will be required. From Stovers Branch the line will extend to Dorothy, connecting there with the Cabin Creek extension of the Chesapeake & Ohio Railway. The Southern branch will begin at Cirtsville and run up Paint

Creek, including a tunnel 1700 feet long. The line will then follow Stevens branch to the mouth of that stream, connecting with the main line of the Virginian Railway and the Piney Creek extension of the Chesapeake & Ohio. It is proposed to begin construction as soon as right of way can be secured. Among those interested in the company are John G. Reading and Robt. F. Allen of Williamsport, Pa.; O. P. Fitzgerald, V. L. Black and Geo. S. Couch, Jr., Charleston, W. Va.

Savannah, Augusta & Northern Sale.

The Savannah, Augusta & Northern Railroad, 25 miles long, from Statesboro to Garfield, Ga., is to be sold under an order of court on March 15 at Statesboro, Ga. The legal proceedings which resulted in the order for sale were instituted by Wm. J. Oliver of Knoxville, Tenn., who was contractor for the line, to satisfy a claim of nearly \$300,000. The projectors of the road, which was incorporated about three years ago, intended to build a line from Savannah to Chattanooga, and at that time it appeared as if the plans would speedily be fulfilled, but the panic affected the enterprise and little was done on the work after the financial troubles which began in October, 1907. Wm. H. Lynn, 111 Broadway, New York, who is president, represented capitalists interested, and Hinton Booth of Statesboro, Ga., was secretary. E. J. Stalker of New York was treasurer, with headquarters as above. The road at present is in the hands of a receiver, B. Phinizy of Augusta, Ga.

Stone & Webster Properties.

Stone & Webster, 147 Milk street, Boston, Mass., have issued their manual of Electric Railway and Lighting Properties for 1910. It includes descriptions of the various companies managed by the concern, together with summaries of their financial condition. There are 30 companies handled by Stone & Webster, with a total capitalization of more than \$126,000,000, including bonds and coupon notes of nearly \$63,000,000, and stocks, capital and common of a little more than \$63,000,000. The gross earnings of these corporations amounted to \$20,241,974 last year, and their net earnings \$8,659,112. After the payment of interest and taxes there was left a balance of \$4,162,762; balance after payment of dividends, \$2,190,576.

Wichita Falls to Roswell.

R. H. Baker, who recently resigned as president of the Trinity Valley & Brazos Railway, is interested, according to a dispatch, in a plan to build a new railroad from Wichita Falls, Tex., westward 350 miles to Roswell, New Mexico, and engineers are making a survey. J. A. Kemp, president, and Frank Kell, vice-president and general manager of the Wichita Falls Route at Wichita Falls, Tex., are also said to be concerned.

In this connection it is interesting to note a report that the latter have bought from Ed. Kennedy of Altus, Okla., the finished grade of the proposed Altus, Roswell & El Paso Railway from Altus, Okla., to Wellington, Tex.

Kansas City's Union Station Plans.

A report from Kansas City says that the Terminal Railway Co., which is to build a new union station, has given formal notification to the Mayor that its plans will be fulfilled more extensively than was at first proposed. In other words, there may be expended perhaps a total of nearly \$30,000,000 instead of about \$15,000,000, as was hitherto expected. There will be a larger number of viaducts and subways, and six tracks on the belt line instead of four tracks, besides 12 tracks in the union station yards instead of nine. On the

west side there will be four tracks instead of two. H. L. Harmon is president; S. W. Moore, counsel, and John V. Hanna, chief engineer.

To Prevent Collisions, Etc.

A test has been given at New Orleans of an electric block device for the automatic stopping of trains which was invented by J. D. Nix of Ferriday, La. Two engines were used, and it is stated that the device worked perfectly, automatically stopping the engines as they approached one another, besides preventing either from entering a block when the other was in the block. An engine was also stopped automatically when a switch was left open and when an obstruction was thrown across the rails. Sol Wexler, Jules Godchaux and others of New Orleans are interested with Mr. Nix in the development of the invention.

Brownwood North & South.

D. F. Johnson, secretary of the Brownwood (Texas) Commercial Club, writes that officers of the Brownwood North & South Railway Co. have been elected as follows: Brooke Smith, president; Will H. Mayes, vice-president; D. F. Johnson, secretary; Ward McConnell, treasurer. The charter authorizes a line from Brownwood to May, Tex., and the first 20 miles will be constructed immediately. Matters will probably be in shape to let grading contracts and bridging between February 20 and March 1. Specifications will be completed within four or five days. John Meade is chief engineer.

Winston-Salem Southbound Bonds.

The stockholders of the Winston-Salem Southbound Railway Co. at a recent meeting held at Winston-Salem, N. C., authorized the directors to issue \$5,000,000 of bonds, the proceeds of which are to be used for the building and equipment of the line from Winston-Salem to Wadesboro, N. C., about 90 miles, upon which construction is under way. H. E. Fries of Winston-Salem is president of the company. The Norfolk & Western and the Atlantic Coast Line are building the road.

Toledo, St. Louis & New Orleans.

An officer of the Toledo, St. Louis & New Orleans Railroad Co. is quoted in a press report as saying that contracts may be let in March to build its projected line from Carmi, Ill., southward to Brookport, on the Ohio River, opposite Paducah, Ky., with a branch to Thebes, near Cairo, Ill. The main line will be about 95 miles long, and the branch about 50 miles. The name indicates that either construction or a connection into the South is projected. N. M. Burns, 941 Pierce Building, St. Louis, is president.

Mississippi Western Bonds Voted.

The vote of Natchez, Miss., on the proposed bond issue to provide terminals for the projected Mississippi Western Railroad between Natchez and Meridian resulted in a great majority for the bonds, there being practically no opposition. It is agreed that work shall begin within nine months, and that the line shall be completed within three years. The bonds are not to be issued until the road is completed into Natchez.

Derailments May Be Abolished.

J. T. Andrew of Birmingham, Ala., is reported to be developing an invention to prevent the derailment of railway trains. According to a description of the device, if a car is derailed secondary wheels engage the track and prevent the vehicle from entirely leaving the rails. At the same time the airbrake is automatically applied to stop the train.

GOOD ROADS

WEEK'S HIGHWAY RECORD.

Progress in Southern Road and Street Improvement.

[Full details of highway undertakings are given in the Construction Department.]

Bonds Voted.

Anahune, Tex.—Chambers county road districts Nos. 2 and 3 voted \$60,000 bond issue for road improvement.

Apalachicola, Fla.—City will issue \$20,000 of bonds for street improvements.

Goldsboro, N. C.—Goldsboro township voted \$15,000 bond issue for road construction.

Jonesboro, N. C.—Jonesboro township voted \$15,000 bond issue for road construction.

Madill, Okla.—City voted \$5000 for street improvements.

Bonds to Be Voted.

Grant City, Mo.—City will vote on issuing \$3000 of bonds for construction of cross sidewalks.

Contracts Awarded.

Ada, Okla.—City awarded contract for asphalt paving on portions of Main street, Townsend avenue and Broadway; 38,680 square yards paving and 8430 linear feet concrete curb and gutter, etc.

Athens, Tenn.—McMinn county awarded contract for constructing 14 miles of road.

Gadsden, Ala.—City awarded contract at about \$10,000 for paving sidewalks.

Tulsa, Okla.—City awarded contracts at about \$200,000 for asphalt paving, concrete work in alleys, etc.

Contracts to Be Awarded.

Dallas, Tex.—City will resurface Elm street with creosoted wooden blocks.

Dallas, Tex.—City Commission ordered the paving of Patterson, Ross, Carroll and Reiger avenues; cost \$100,000.

Dallas, Tex.—City opens bids February 11 for paving East Side avenue.

Dothan, Ala.—City opens bids March 7 for constructing 14,000 square yards of paving.

Harrisonburg, La.—Catahoula parish will contract February 14 for 25-mile road improvement.

Kirkville, Mo.—City will construct 6000 square yards brick paving and 4500 linear feet concrete curb, etc.

Montgomery, Ala.—City opens bids March 7 for paving several roadways.

Norfolk, Va.—City opens bids February 15 for repaving parts of Granby and Chapel streets.

Oklahoma City, Okla.—City opens bids February 21 for street paving.

Pensacola, Fla.—City opens bids March 10 for concrete sidewalks; 635,000 square feet.

Pulaski, Va.—Pulaski road district will probably contract after March 1 for macadamizing material for about 20 miles of road.

Sapulpa, Okla.—Creek county will construct four cross-county roads at cost of about \$6000.

Tampa, Fla.—Hillsboro county opens bids March 1 for hard-surfacing 31st street and four miles of road.

Waco, Tex.—City will lay brick paving on sections of four streets.

Westminster, Md.—Carroll county opens bids February 14 for grading and macadamizing one mile of road.

For Virginia Roads.

In his inaugural address last week Governor William Hodges Mann of Virginia

placed himself in a strong position for highway improvement. He said:

"The discussion of the agricultural interests of the State naturally brings up the question of good, permanent highways. I favor economy in the administration of the Government, but economy demands good, permanent highways over which the farmer can in bad weather haul his crop, and while the land cannot be worked, cultivate the social benefits and pleasures to which quick and easy transportation so greatly contributes. I have long been in favor of establishing, so far as the Legislature can do so, a certain permanent plan of State aid to the counties, enjoining, however, upon the Legislature, in view of the different conditions existing in the various sections of the State, that these conditions be carefully considered and met in the distribution of the fund set apart by the State. The fact that 10 counties in the State did not avail themselves of their part of the fund available in 1909 might indicate that some changes should be made in the method of distribution. I consider good, permanent highways, next to agricultural interests, the vital question in Virginia today. I do not undervalue our schools, but they are firmly established, under wise and progressive management, and in a progressively improving condition, and do not so much need our care as do our public highways.

"I favor the recommendation made by Governor Swanson in his message, that at least one-half of the franchise tax on railroads, which is a constantly-increasing sum, be set apart for State aid to the counties to be used in building highways, and it should be understood that this sum will be increased from time to time as the resources of the State permit, and that it is the settled policy of the State to help along the work of building good roads in every possible way.

"It is respectfully suggested that quarries at suitable and convenient points be purchased by the State, and the long-term convicts be required to crush rock to be distributed to the counties for road purposes free of cost. It is believed that the railroads will haul the rock at a nominal cost in view of the benefits which permanent highways will bring to their respective lines, and that with the material given and the help of the convicts furnished by the State the counties can gradually construct permanent highways which will add to the value of our lands, increase the convenience and pleasure of rural life and keep our boys at home."

San Antonio—New Orleans.

Mr. Sam Park of Beaumont, Tex., who has been active in the movement for an automobile route between New Orleans and San Antonio, informs the MANUFACTURERS' RECORD that the run had been made from San Antonio to Beaumont in an automobile, and that good roads were reported all along the route with the exception of two places just outside Jefferson county, Texas. Mr. Park himself has made an automobile trip from Beaumont to New Orleans, so that the whole route of the proposed good highway has been traversed.

Notes.

The Municipal League of Greenville, S. C., has unanimously requested that \$60,000 be appropriated by the Legislature this year for the improvement and maintenance of roads in the county, and that \$5000 of the amount be used for replacing small wooden bridges by concrete culverts.

TEXTILES

[A complete record of new textile enterprises in the South will be found in the Construction Department.]

Correspondence relating to textile matters, especially to the cotton-mill interests of the South, and items of news about new mills or enlargements, special contracts for goods, market conditions, etc., are invited by the MANUFACTURERS' RECORD. We shall be glad to have such matters at all times, and also to have any general discussion relating to cotton matters.

For a \$1,000,000 Company.

Josephus Boggs, Room 15 Morgan Building, El Paso, Tex., writes the MANUFACTURERS' RECORD: "I am gathering data with a view of locating a cotton mill with \$1,000,000 capital. Local parties will encourage the project with subscriptions to \$250,000 of the capital stock, and probably a free site. This will furnish employment to a great number of the Mexican population, of which El Paso has probably 20,000."

For a Cotton Mill.

Dr. H. L. B'Shears, one of the large plantation owners of the Red River section, is leading a movement for the erection of a cotton factory at Texarkana, Ark. It is contemplated to distribute the stock among the planters in the immediate vicinity of Texarkana, either in Arkansas or Texas.

The Amazon Cotton Mills.

The Amazon Cotton Mills of Thomasville, N. C., will complete its buildings by June and then install 7000 or 8000 spindles for manufacturing yarns. This company was organized several months ago, and has awarded all contracts for buildings, machinery, etc. Its president is J. W. Cannon of Concord, N. C.

To Spin Its Yarns.

The P. H. Hanes Knitting Co. of Winston-Salem, N. C., will increase its capital stock by \$250,000 to build a yarn mill. This mill will be equipped with 10,000 spindles to spin the hosiery yarns for the company's knitting plant.

Wants Courthouse Plans.

Messrs. Geo. S. Weakly and Jas. H. Jones, chairman and secretary of committee, Dyersburg, Tenn., will receive competitive plans, specifications and bids until February 21 for a fireproof courthouse. Cost not to exceed \$60,000.

A \$100,000 Knitting Company.

The Robersonville (N. C.) Hosiery Manufacturing Co. has been incorporated with a capital stock of \$100,000 by J. H. Roberson, A. S. Roberson, J. C. Roberson and others.

The Skyland Hosiery Co.

The Skyland Hosiery Co. of Flat Rock, N. C., will expend \$15,000 to rebuild its finishing plant building, burned in December. It will also double the capacity of its knitting department.

Chambray and Cheviot Suitings.

The Ashburn Bros. Shirt Manufacturing Co., Franklin, Va., wants addresses of manufacturers of chambray and cheviot suitings.

Another Julian S. Carr Mill.

The Durham Hosiery Mills Co. No. 4 of Durham, N. C., has been incorporated with a capital stock of \$139,500 by Messrs. Julian S. Carr, W. F. Carr and associates.

Textile Notes.

It is reported that T. R. Gibson of McColl, S. C., will build a cotton mill.

The Young-Hartsell Mills Co. of Con-

cord, N. C., will install looms to weave the product of its 10,750 ring spindles.

The Ledbetter Manufacturing Co. of Rockingham, N. C., has no definite plans for the enlargement mentioned last week.

Cotton-Oil Industry.

At the first annual beefsteak dinner of the American Cottonseed Oil Association at New York last Monday Mr. Joseph G. Gash, president of the American Cotton Oil Co., said:

"At the close of the war, 1865, there were only between 15 and 20 cottonseed mills in this country, which crushed altogether about 50,000 tons of seed. Since then the public appreciation of the value of cottonseed oil and the other products of the seed as pure and wholesome articles finding manifold uses in the arts and sciences, and in agriculture, has been so rapid that in 1909 there were not less than 750 cottonseed-crushing mills and more than 50 refineries for cottonseed oil in the United States. These mills and refineries crush and refine nearly 4,000,000 tons of seed annually, employing a capital exceeding \$150,000,000, and giving employment, directly or indirectly, to more than 100,000 people.

"Cottonseed oil is exported to every civilized country of the globe for salad and cooking purposes, with a large and growing trade in cottonseed oil for edible purposes carried on between the United States and France, Italy, Greece, Turkey and other centers of the olive-oil industry.

"It has fought its way against prejudice and opposition by the growers and dealers in olive oil, and is today the recognized Spain and France, the sesame and arichide and worthy rival of the olive of Italy, of Asia and Africa, and of the Colza or rape seed of France and Germany.

"In the United States the largest market for cottonseed oil is found with the makers of lard substitutes, and all of the cooking fats of this general character combined make use for not less than 100,000,000 gallons of cottonseed oil every year. Cottonseed oil is also the leading constituent of the various butterines and oleomargarines, which, despite prejudice carefully fostered by the dairy interests, are finding a very large and steadily-growing market in this country.

"It is noteworthy that the prejudice against this excellent and wholesome food product, while slowly dying out in this country, has not existed in European countries where the manufacture of artificial butters has long enjoyed public approbation and the business in the articles has grown to enormous proportions, so much so that in Rotterdam alone from 5,000,000 to 10,000,000 gallons of cottonseed oil are thus used annually, the product going mainly to the English market; but margarine factories are scattered all over England, Holland, Belgium, Germany and France, and all find a ready public market for their wares on the excellence and wholesomeness of their product. There is also a steady and growing appreciation of cottonseed oil in the family, both for cooking and for salad uses."

St. Paul to Elizabethtown.

A dispatch from Fayetteville, N. C., says that the Virginia & Carolina Southern Railroad Co. has decided to build the contemplated line from St. Paul to Elizabethtown, and has let contract to N. Gillespie Wade of Florida.

Yard at Silver Grove.

A letter from Roxbury, Va., to the MANUFACTURERS' RECORD says that Langhorne & Waugh have a contract from the Chesapeake & Ohio Railway to build a large yard at Silver Grove, Ky. It is all shovel work, and will be started as soon as possible.

LUMBER

[A complete record of new mills and building operations in the South will be found in the Construction Department.]

Building Operations for January.

As indicated by the activity which marked Southern and Southwestern building operations in the closing months of 1909, there have been satisfactory increases during January in many of the cities of these sections. The total estimated value of buildings for which permits were issued in Norfolk amounted to \$157,926, representing 53 permits. This exceeds the value of operations in January, 1909, by \$17,094, but shows a decrease in the number of permits of 21. Permits were issued in Charlotte to a valuation of \$68,623. The same activity which has prevailed in Atlanta for many months is still in evidence, as shown by building estimates for January, when a total of 332 permits was issued, representing a valuation of \$406,377. Operations in Montgomery during the month compared favorably with any one of the last five months except December. Structures for which permits were issued in January represent a valuation of \$21,228, and in December of \$40,713.50. In Birmingham 90 permits were issued for new structures, representing a valuation of \$145,065, and 91 permits for alterations and repairs, valued at \$19,456. Operations in Tampa represent a valuation of \$101,151.75, permits having been issued for 32 new buildings, valued at \$94,005, and 56 for alterations and repairs, valued at \$7146.75. A total of 164 permits was issued in Chattanooga, representing a valuation of \$53,289, as compared with total of 148 permits issued in January of last year, valued at \$51,095. Eighty-eight permits were issued in Louisville during January for buildings estimated to cost \$271,956, as compared with 121 permits issued in January, 1909, representing a valuation of \$132,830. In Dallas the value of operations amounted to \$380,565, covered by a total of 165 permits. These figures show an increase over the corresponding month of last year of 14 in number of permits issued and \$175,870 in value. A total of 319 permits was issued in San Antonio, valued at \$198,051, and in Fort Worth 90 permits were issued for new structures, representing a valuation of \$295,972.50. Permits were issued in Houston during the month to a valuation of \$426,385, which is an increase over the corresponding month last year of \$277,584. In Oklahoma City permits were issued for buildings valued at \$534,878, as compared with a total in January, 1909, of \$235,325. Operations in Tulsa represent a valuation of \$113,865. In Baltimore permits were issued for 210 dwellings, seven structures for warehouses and manufacturing purposes and one school building, involving an estimated expenditure of \$527,700.

Will Begin Operations.

A dispatch from Dublin, Ga., states that the Southland Veneer & Lumber Co., which has erected a plant in that city, will begin operations within a few weeks. Officers of the company are F. G. Garbutt, president; Z. Clark Twigg, vice-president; James M. Finn, treasurer; William L. Branch, secretary and sales manager, and G. L. Schultz, operating manager.

For Tannic Acid.

Mr. C. M. Poore of Lakewood, N. C., writes to the MANUFACTURERS' RECORD: "I am living in a section of Western North Carolina where thousands of crops of chestnut wood, hemlock and bark are shipped annually. I understand that tannic acid is extracted from these woods and used mainly for tanning leather. It occurs

to me that a plant in the mountains (where these woods can be bought very cheaply) for extracting the acid would be a paying proposition. I am therefore writing to ask if you can give me the process for extracting the acid, the machinery and power required for a plant of a given capacity, and such other data as you find convenient and willing to give."

Improving Tea Chest Plant.

Reports from Wilmington, N. C., state that the Acme Tea Chest Co. has received modern machinery from Glasgow, Scotland, for the purpose of improving and making new installations and betterments at its Wilmington plant. Contract has been awarded to C. W. Caldwell for the erection of a building 150x60 feet, which is designed similar to the present structure, but will be larger. The improvements, it is said, will involve an expenditure of about \$100,000. J. B. Brand of Wilmington is the local manager of the company, and will supervise the work of construction.

Absorbs Tie Company.

At the annual meeting of the Atlantic & Gulf Land & Timber Co. at Tampa last week arrangements were made whereby the Tedder Tie Co., operating extensively in Manatee county, Florida, was absorbed by the former company. The following officers for the Atlantic & Gulf Land & Timber Co. were elected: C. H. Tedder, president and general manager; M. M. Crum, vice-president and assistant general manager, and G. W. Bean, secretary and treasurer.

Automobile Develops Lumber Trade.

Score one more for the automobile industry in creating business activity. A letter in this week's issue of the MANUFACTURERS' RECORD from West Virginia says: "The automobile business has so increased the demand for first-class poplar that it has soared to unprecedented prices, and every mill man you meet is anxious to procure a tract of land bearing poplar that he may cut when he finishes his present job."

Hardwood Manufacturers.

At the eighth annual convention of the Hardwood Manufacturers' Association of the United States at Cincinnati last week the following officers were elected: President, R. M. Carrier, Sardis, Miss.; first vice-president, Frank F. Fee, Little Rock, Ark.; second vice-president, W. B. Townsend, Townsend, Tenn.; treasurer, C. M. Crawford, Coal Grove, O.

Pennsylvania Buyer Wants Lumber.

J. C. Batchelet, Derry, Pa., writes the MANUFACTURERS' RECORD that he wants prices on oak and hemlock dimension lumber and also on white pine, hemlock, poplar and other lumber (boards, planks, etc.)

Lumber Notes.

The Louisville (Ky.) Builders' Exchange elected the following officers for the ensuing year: E. G. Heartick, president; W. C. Magruder, first vice-president; W. B. Pell, second vice-president; Alfred Struck, treasurer; J. M. Vollmer, secretary.

At the convention of the Tri-State Retail Lumber Dealers' Association at Evansville, Ind., last week the following officers were elected: President, T. B. Wright of Mt. Carmel, Ill.; vice-president, George E. Gary of Hopkinsville, Ky.; secretary and treasurer, Henry Kolker of Evansville.

The Texas Industrial Congress will meet at San Antonio April 19-21.

MECHANICAL**Detroit "Fenestra" Window Sash.**

Three accompanying views of an improved window sash will attract the attention of the architect, the building contractor and the building owner. They illustrate the "Fenestra" structural-steel sash manufactured by the Detroit Steel Products Co. of Detroit, Mich. The

"An accompanying illustration will show you how the 'Fenestra' joint is made.

"A small cross-slot is made in the vertical bar (only sufficiently large to allow the flange of the horizontal bar to pass through); the molded portion is then pressed out so as to fold closely round the molded portion of the horizontal bar.

"All that happens to the horizontal bar is that a small notch is made in it to act

delivered through a given opening than has heretofore been possible.

"By making a sash which requires no frame, sash weights, etc., or heavy mullions, we eliminate the cost of same, thereby reducing the cost of each sash to a minimum.

A natural curve at each joint breaks the monotony which is characteristic of the old miter-joint sash, and gives the sash an appearance which is quite its own. This sash was designed to supply a demand for a metal factory sash. It is not intended for installation in office buildings, but for its special purposes it has no equal, as combining simplicity and neatness with strength and weather and fire resisting qualities.

"The cost is governed by the quantity of material involved, the size and uniformity of the openings into which the sash are to be installed, and the amount

of sashes in fixed lights with those which are provided with ventilators. All units of the same height are interchangeable.

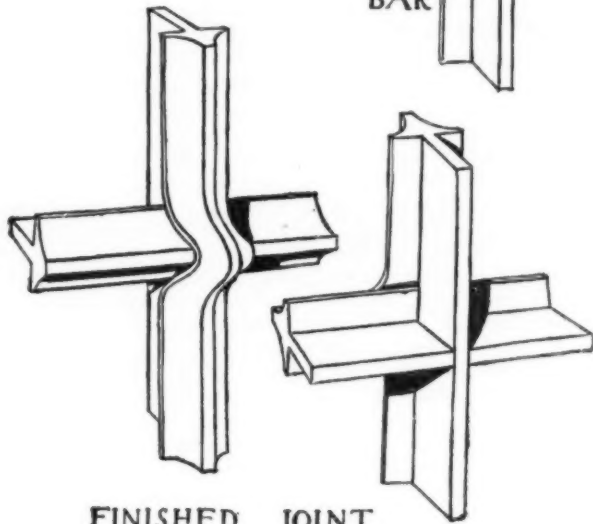
"One method is almost universally used for the erection of 'Fenestra' in brickwork openings. The same sections are used in concrete, but the methods for installation in concrete are so varied that we advise consultation direct with us when questions arise on this point.

"We supply the sash complete with glazing pins, and hook bolts at head and flat bar lugs if required.

"We do not, however, supply any collateral construction, such as angles or other steelwork to carry walls above sash."

Terry Hand-Power Core Drill.

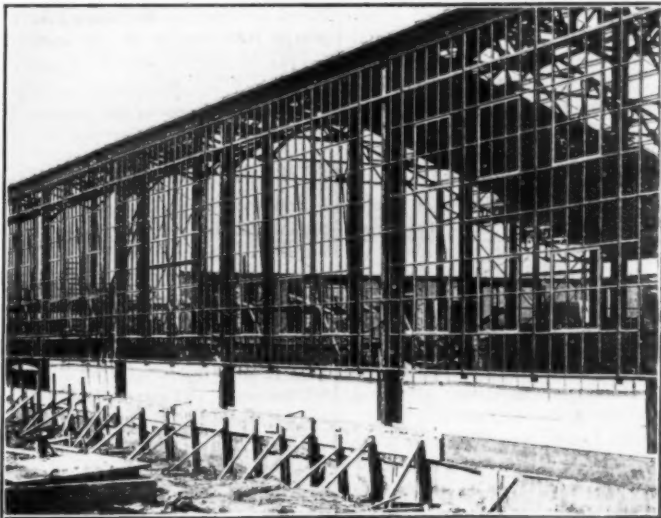
An accompanying illustration presents a view of the Terry hand-power core drill, made by the Terry Core Drill Co., of 54

HORIZONTAL BAR**VERTICAL BAR****FINISHED JOINT****THE "FENESTRA" JOINT.**

"Fenestra" is intended for use in warehouses, factories, mills, foundries, car shops, power stations and other industrial buildings, while it is also adapted for interior partitions and elevator enclosures. The manufacturer says:

"In introducing our wrought-steel 'Detroit-Fenestra' sash (patented) in standard sizes we believe that we are taking a

as a lock. From this it will readily be seen that the amount of metal removed in making a 'Fenestra' joint is comparatively infinitesimal. This allows a far lighter section to be used than is possible with the miter joint, thus making a great saving in the weight of the material used and consequently in the ultimate cost of the sash.

**SIMPLE CONSTRUCTION OF "FENESTRA" SASH.**

step in the manufacture of metal sash for which the market is now prepared. The architect and builder will readily appreciate the advantages derived from the use of a standard sash from the standpoint of delivery and erection, while from the manufacturing standpoint it may be said that the adoption of the standard so materially reduces the cost of the sash as to make metal sash as inexpensive as the ordinary wood sash under equal conditions.

"'Fenestra' steel sash are manufactured from specially rolled, solid sections, and the composition of the material is such that we are able to furnish a sash which has at once the strength of steel and the weather-resisting qualities of iron.

"Because of the strength of our joint it is possible for us to use sections which permit of 25 per cent. more light being

of ventilation required in each sash unit. We aim, therefore, to obtain information regarding prospective work at a time when it is not too late for us to advise concerning details of building construction. In this way we are able to give you the benefit of our experience, and, at the same time, make our proposition attractive by offering at their full value and least cost the advantages which our construction affords.

"Detailed information can be obtained from our estimating department, which is organized especially for consultation with customers.

"The use of standards in 'Fenestra' neither restricts the size of the window nor the percentage of ventilation which may be obtained from a given opening.

"By selecting a sash of the required height the width may be varied by using multiples of this sash unit.

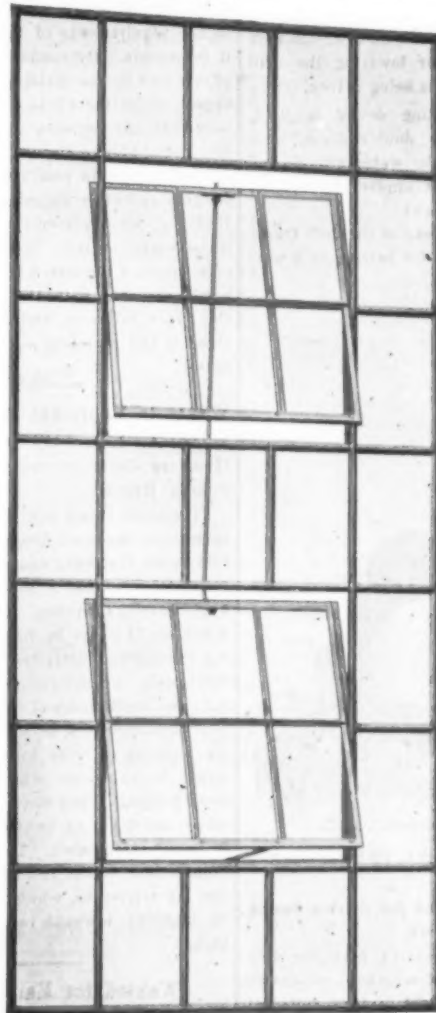
"Ventilation may be arranged to suit practically any requirement by the use of the desired single unit or a combination

Church street, New York. Describing this drill, the company says:

"This drill is for prospecting, foundation testing and for making wash borings. To determine, without washing, the character of soils or mineralized sand, special tools are provided with which 'dry samples' can be obtained. This method of testing, particularly in placer deposits, is important, as the exact formation can at once be determined, whereas by the washing process the heavy or mineralized particles will not always wash to the surface.

"The design is unique, as it is equipped with a flywheel, which insures a uniform speed of the drill tools with the least exertion. This is an improvement which has not previously been taken advantage of in hand-power drills.

"Furthermore, the drill has unusually long bearings for the spindle, which is a feature of all the drills designed by this company. These long bearings impart a steady motion to the drill rods and prevents their lashing in the bore hole, there-

**UNIT OF STANDARD "FENESTRA" SASH.**

by avoiding unnecessary breakage of the cores, increasing the speed of drilling and the percentage of core which is recovered.

"The capacity of this drill is 300 feet, to which depth it will bore a two-and-one-quarter-inch hole and cut a one-and-one-quarter-inch core.

"Either diamond or shot tools can be used.

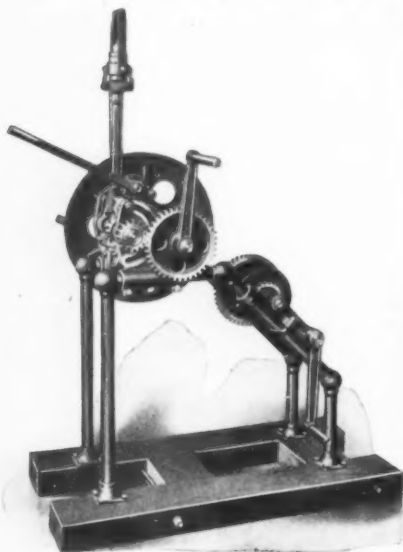
"For mountainous countries, inaccessible to larger apparatus, and where fuel is difficult to obtain, it is particularly adapted. The shipping weight is 415 pounds, and the heaviest single piece (the flywheel) weighs 73 pounds. When knocked down it may be readily transported from place to place, and can be quickly assembled for operation.

"The drill driving shaft is provided with change gears, so that fast or slow speed may be obtained, according to the character of the material to be drilled.

"The head swivels to any angle, and can be slid back on its frame to clear the bore hole when raising or lowering the drill rods or when casing is being driven.

"A sensitive feeding device is used, which consists of a double drum, with ropes extending to the water swivel, and to which pressure is applied by a lever with a ratchet and pawl.

"Mounted on the rear of the drill frame is a hand hoist used for raising or lower-



TERRY CORE DRILL.

ing the drill rods and for driving casing through soil to bedrock.

"The frame, supporting both the drill head and hoist, is of seamless cold-drawn tubing, light in weight, yet of sufficient strength to withstand the heaviest load which may be placed upon it for its rated capacity.

"Cut gears and phosphor-bronze bearings are employed throughout, and all working parts are carefully and accurately machined so that friction is reduced to the minimum.

"A hand force pump is used, which supplies water to the bore hole.

"For drilling operations more extensive than a hand machine is capable of undertaking, and when portability is essential to the work, a power attachment can be applied to this drill by substituting a pulley for the flywheel and a countershaft with a friction clutch to control the power. When so arranged it can be driven with steam, gasoline or horse power.

"The friction clutch is advantageous when a gasoline engine is used, as it eliminates the annoyance of stopping and starting the engine when the drill may be momentarily stopped.

"When equipped to operate with power it is capable of boring a two-and-one-quarter-inch hole to the depth of 400 feet."

FOREIGN LETTERS

The MANUFACTURERS' RECORD is so widely read in foreign countries that we are in constant receipt of many letters from all parts of the world. Some of these letters indicate the disposition of foreigners to buy American goods, and are therefore of interest to our readers.

A Letter from Havana.

De Pool, Vazquez & Co., P. O. Box 1069, Havana, Cuba, write the MANUFACTURERS' RECORD:

"We have combined our agencies under the above-named firm, counting with the co-operation of J. M. Fernandez, a New York business college graduate with some cash capital and Thomas Portodes, former salesman and traveler of Mr. de Pool. The firm expects to keep one of the partners visiting the trade of the rest of the island all the year round, and to keep the necessary office and city selling forces up to the requirements of the high interests it represents. By combining our working efforts and by the division of territory we expect to get the whole share of the business that our representatives are entitled to. Being able to dispose of some working capital, we are in position to take care of freights and other shipping expenses, thus relieving our representatives of that much unnecessary outlay. By mutual consent of all parties interested P. D. de Pool has been entrusted with the management of the firm's interests, and is authorized to sign for and represent same in all its legal acts."

Wants to Represent Manufacturers.

Jos. A. Lagerfeld, 74 Rodingsmark, Hamburg, Germany, writes the MANUFACTURERS' RECORD:

"I wish to thank you for your courtesy in mailing me your December, 1909, edition to my Hamburg address, and now beg to advise you that I shall return to the west coast next spring. Through my residence of 11 years in San Francisco and my commercial activities I have become thoroughly acquainted with conditions, etc., and am desirous of representing Eastern manufacturers in said territory, and am anxious to enter into correspondence now. Knowing the wide distribution of your journal, I feel that you could materially assist me by publishing these lines in your next number. To accelerate communications I take the liberty of naming you my references, which (in the event of an inquiry) I would request you to furnish."

Wanted for Haiti's Trade.

Ed. Esteve & Co., Port au Prince, Haiti, write the MANUFACTURERS' RECORD:

"The copy of the MANUFACTURERS' RECORD came to hand, and we promise ourselves to write you in detail about all the articles that might find a market here. However, we are at present handling salt fish, American provisions, flour, spices, corned beef, salt pork, leathers for footwear, hatchets, etc.; agricultural implements, tools for public works, etc. We should be happy to enter into correspondence with American firms making these goods with a view to future business."

A Letter from Syria.

John Hakim, Tripoli, Syria, writes the MANUFACTURERS' RECORD:

"I am interested in the export to United States of needle shuttle work made by hand of cotton threads in Syria and shipped in quantities to New York and different other places in the United States, so please give me the name of an honest American firm that deals in Oriental goods, in order to ship for him either on commission or for his account. This kind of work is made

into sets, of which I will send a sample on application. Please give me the names of some firms that export corn oil besides the Corn Oil Products Co., New York. About 1000 barrels of said oil shipped to Tripoli this season."

For Leather Strip Manufacturers.

Bensussan, Sides & Co., Salonica, Turkey, write the MANUFACTURERS' RECORD:

"We have very active demand for leather strips like the sample which we are sending you under separate cover registered. We shall be very much obliged to you if you will be so good as to submit the sample to some leading American tannery making such a strip and try to engage them to give us agency for the city of Salonica so that we may be able to strike a bargain with some of the numerous and important offers we now have on hand."

Alabama's Opportunities.

Mr. John T. Cochrane, president of the Alabama, Tennessee & Northern Railroad Co., writing from Mobile, Ala., to the MANUFACTURERS' RECORD, says:

"I take this occasion to compliment you on the good work that you are doing, especially for the South. It is my opinion that the South today is in better position to furnish more attractive opportunities for the investment of capital than any other section.

"In addition to our vast resources lying waiting for development, especially in Alabama, the most pleasing thing to realize is that we seem to be passing from an era of political antagonism and agitation into a period of business co-operation.

"Besides a large timber and farming interest throughout our State, we have in the Birmingham district alone a field that is capable of employing more men than the present population of the entire State, and the possible yearly production from this district for consumption by the outside world is almost beyond imagination.

"Besides the rich agricultural section, fine forests of pine and hardwood and immense coal fields that are awaiting development, there is also to be found abundant deposits of limestone suitable for the manufacture of cement, and capital cannot be invested in anything more profitable.

"In mineral resources, lime rock, cement rock, coal and iron ore Alabama stands among the first in her invitation to capitalists to invest their money in these great natural resources, which will bring most satisfactory returns."

Reduced Rates to Cement Show.

The Southeastern Passenger Association has advised the Cement Products Exhibition Co. that reduced fares have been granted by the following railroads in the South on account of the Cement Show in Chicago February 18-26: Alabama & Vicksburg; Alabama Great Southern; Cincinnati, New Orleans & Texas Pacific; Carolina, Clinchfield & Ohio; Gulf & Ship Island; Illinois Central; Louisville & Nashville; Mobile & Ohio; Nashville, Chattanooga & St. Louis; New Orleans & North-eastern; St. Louis & San Francisco; Southern Railway; Western & Atlantic; West Point Route, and Yazoo & Mississippi Valley. The granting of this reduced rate should stimulate an increased attendance on the part of those interested either in the use of cement or in the many important conventions that will be held in Chicago at the same time.

L. G. Smith of Ensley, secretary of the Alabama Retail Hardware Association, informs the MANUFACTURERS' RECORD that his organization's convention will be held in Birmingham on May 3-5. It has secured the armory and will have an exhibit.

MINING

The Maxwell-Knight Iron Co.

The Maxwell-Knight Iron Co., recently incorporated with offices at Butler, Tenn., has organized by the election of Henry V. Maxwell of Butler, president and general manager; E. P. Knight, Boston, Mass., vice-president, and Harry J. Knight, secretary and treasurer. The company will develop brown hematite mines at Maxwell Siding, in Johnson county, Tennessee, and desires prices on the following new or second-hand equipment: One 40-50-horsepower stationary boiler; one 25-30-horsepower stationary engine; one compound duplex pump to elevate 700 to 800 gallons of water 200 feet per minute through six-inch pipe with two nozzles; one three-inch centrifugal belt-driven pump; 700 feet six-inch and 300 feet rethreaded wrought pipe; one revolving screen for log washer, and two California giants.

Erecting Clay Refining Plant.

The erection of clay-refining plant has been started at Franklin, N. C., by the Southern Clay Co., a subsidiary of Golding Sons' Company, Trenton, N. J., according to current reports from Franklin. It is understood that company will expend about \$25,000 for the necessary buildings and equipment, and is erecting a main building 112x220 feet to be equipped for a capacity of from 40 to 50 tons per day. The power will be supplied by a 100-horsepower engine and 150-horsepower boiler. A dam is being constructed for a water supply, and if this is not sufficient it is said that artesian wells will be drilled. It is stated that the tunnel drying system of the American Blower Co. of Detroit will be employed.

Buys Coal Properties.

According to reports from Knoxville, negotiations have been closed by the R. O. Campbell Coal Co. of Atlanta for the purchase of the coal properties of the Westbourne Coal Co. at Westbourne, Tenn., the deal involving approximately \$250,000. The Westbourne Coal Co., it is stated, is one of the several companies associated with the Southern Coal & Coke Co. of Knoxville, and a representative of that company is reported as saying that the transfer would not effect more than a temporary reduction of 10 per cent. in the company's coal output. It is understood that the R. O. Campbell Coal Co. will make improvements to the property it has acquired.

Will Increase Its Operations.

Following the announcement by the Baltimore & Ohio Railroad Co. that it would provide facilities for handling 50 per cent. more freight than had ever been offered it in the West Virginia coal field, the Consolidation Coal Co., Continental Building, Baltimore, has issued orders to its mine managers in the vicinity of Fairmont to fill the mines with miners and rent all the houses owned by the company.

Mining Notes.

Howard N. Ravenson, L. E. Woods and Jackson Taylor, Jr., all of Gary, W. Va.; T. H. S. Curd and L. D. Wilmore, both of Welch, W. Va., have incorporated the Crystal Block Coal & Coke Co., with a capital stock of \$100,000, to operate near Rawls, W. Va.

W. E. Ragsdale, president Tennessee Refining Co., Black Fox, Tenn., writing to the MANUFACTURERS' RECORD regarding his company's silix and tripoli mines at Black Fox, says that a vein of Venetian red has just been opened up on the property, and that his company is preparing to more than double its plant.

Construction Department

TO OUR READERS!

In order to understand and follow up properly the Construction Department items, please bear in mind the following statements:

EXPLANATORY

The MANUFACTURERS' RECORD seeks to verify every item reported in its Construction Department by a full investigation and complete correspondence with everyone interested. But it is often impossible to do this before the item must be printed, or else lose its value as news. In such cases the statements are always made as "rumored" or "reported," and not as positive items of news. If our readers will note these points they will see the necessity of the discrimination, and they will avoid accepting as a certainty matters that we explicitly state are "reports" or "rumors" only. We are always glad to have our attention called to any errors that may occur.

In correspondence relating to matters reported in this paper, it will be of advantage to all concerned if it is stated that the information was gained from the MANUFACTURERS' RECORD.

ADDRESS FULLY

To insure prompt delivery of communications about items reported in these columns, the name of one or more incorporators of a newly incorporated enterprise should be shown on the letter addressed to that town, or to the town of the individual sought, as may be shown in the item, as sometimes a communication merely addressed in the corporate or official name of a newly established company or enterprise cannot be delivered by the postmaster. This will help to insure prompt delivery of your communication, although it is inevitable that some failures on the part of the postal authorities to deliver mail to new concerns will occur.

WRITE DIRECT

It is suggested to advertisers and readers that in communicating with individuals and firms reported in these columns, a letter written specifically about the matter reported is likely to receive quicker and surer attention than a mere circular.

The Daily Bulletin of the Manufacturers' Record is published every business day in the year for the purpose of giving the earliest possible news in regard to new industrial, railroad and financial enterprises organized in the South. It is invaluable to contractors, manufacturers, engineers and all others who want to get in touch at the earliest moment with new undertakings or the enlargement of established enterprises. The subscription price is \$25 a year. All advertising contracts in the Manufacturers' Record extending over a period of three months include a subscription for the length of time of the contract to the Daily Bulletin.

BRIDGES, CULVERTS, VIADUCTS

Ala., Birmingham.—City Council instructed Maury Nicholson, City Engineer, to prepare plans and specifications and make estimates for construction of subway or viaduct on 19th St.

Ark., Van Buren.—Van Buren and Fort Smith Bridge Commission located site for proposed bridge at foot of Jefferson St. in Van Buren; structure to be 60 feet wide and 1800 feet long; estimated cost, \$480,000.

Fla., St. Petersburg.—Hillsboro county awarded contract at \$3.75 per foot to Jackson & Williamson of St. Petersburg to construct bridge across Long Bayou at Johns Pass; concrete piling; estimated cost, \$10,000; Geo. Fuchs, Tampa, Fla., County Engineer. (Recently mentioned.)

Ga., Atlanta.—City has not made definite plans for construction of proposed bridge across Bellwood Ave. Robert F. Maddox, Mayor.

Ga., Columbus.—General of Georgia Railway, C. K. Lawrence, chief engineer, Savannah, Ga., will construct, it is reported, \$150,000 steel bridge across Chattahoochee River.

La., New Orleans.—Cincinnati, New Orleans & Texas Pacific Railway, C. Dougherty, engineer maintenance of way, Cincinnati, Ohio, is considering, it is reported, construc-

tion of viaduct about 50 feet wide across tracks on East End Ave.

Okla., Nowata.—Nowata county will vote February 21 on recently-noted bond issue of \$100,000 for bridge construction; E. Elliott, County Clerk.

Tenn., Chattanooga.—Board of Public Works will open bids March 1 for permanent repair of McCallie Ave. viaduct; specifications, prepared by Robert Hooke, City Engineer, specify concrete-steel structure for 240 feet of bridge that is over tracks of two railroad companies. (Recently mentioned.)

Tex., San Antonio.—Galveston, Harrisburg & San Antonio Railway, D. K. Colburn, engineer, Houston, Tex., has plans for viaduct over its track on Walnut St., along Hays St., extending from Cherry to Chestnut St.; estimated cost, \$110,000.

CANNING AND PACKING PLANTS

Ark., Mena.—Shipping Canning Manufacturing Co. incorporated with \$15,000 capital stock; A. L. Durham, president.

Okla., Oklahoma City.—Schwarzschild & Sulzberger Company, Chicago, Ill., has made conditional contract to locate meat packing costing \$3,000,000; will determine definite details within 30 days; contemplates daily capacity of 1000 head of cattle, 1500 head of sheep and 2500 head of hogs. (Previously reported proposed.)

Va., Richmond.—Swift & Co., Chicago, Ill., has plans for erection of packing plant; three stories; fireproof; cost of buildings, \$30,000.

CLAYWORKING PLANTS

Ark., Heber.—C. A. Mytchel and B. R. Brown propose establishment of plant to manufacture bricks.

Ga., Milledgeville.—Sewer Pipe, etc.—Oconee Brick & Tile Co. is preparing to establish plant for manufacturing sewer pipe, drain and partition tile, etc.; machinery purchased.

La., St. Joseph.—Bricks.—Schneider Bros. will rebuild burned brick plant.

Mo., Shelbina.—Brick and Tile.—Shelbina Brick & Tile Co. will enlarge capacity of plant.

S. C., Columbia.—Pottery.—Mrs. H. Stork will rebuild burned pottery plant.

Okla., Boynton.—Vitrified Brick.—Francis Vitrified Brick Co. incorporated by W. L. Buckles, Charles Francis, F. S. Naugle and others.

Va., Buena Vista.—Fire Brick.—Dickinson Fire Brick Co. (T. T. & W. E. Dickinson) is proceeding with erection of proposed 50x65-foot addition; brick structure; cement dry floor, arranged to use waste heat for drying; building to be completed by March 15; will increase plant's capacity 33½ per cent.; no further machinery needed.

W. Va., Piedmont.—Fire-brick, etc.—Piedmont Fire-Brick Co. incorporated with \$30,000 capital stock; has elected J. A. Landsberry, president; Geo. Wendell, vice-president; C. A. Landsberry, secretary and treasurer; plant completed and in operation; 30,000 fire-bricks daily capacity.

W. Va., Williamstown.—Pottery.—M. F. Noll, Marietta, O., and Mr. Beeson, Williamstown (recently noted as interested in promoting pottery), with others are organizing rustic company to manufacture gas logs and other clay products.

COAL MINES AND COKE OVENS

Ky., Middlesboro.—Kentucky & Virginia Coal Co. organized; leased 700 acres of coal land; shipping-point, Cumberland Gap, Tenn.

Mo., Richmond.—Pence & Calnen Coal Co. incorporated with \$100,000 capital stock by James M. Pence, James Calnen, Mayme Calnen and others.

Okla., Henryetta.—Victoria Coal Co., McAlester, Okla. (recently noted under McAlester) to have increased capital stock to \$100,000 will develop 1000 acres with daily output of 300 to 800 tons; machinery purchased; cost \$100,000; James Cameron, president and engineer in charge; W. J. Wade, vice-president; S. Guerrier, secretary; Joe Hellman, treasurer.

Tenn., Caryville.—Red Ash Coal Co. will install alternating current electric equipment at coal mines; contract awarded to General Electric Co., Schenectady, N. Y.

Tenn., Memphis.—Paradise Coal Co. incorporated with \$5000 capital stock by H. W.

Tolle, James Forrest, W. P. Hallday, A. L. Parker and B. S. Parker.

Tenn., West Bourne.—R. O. Campbell Coal Co., Atlanta, Ga., purchased West Bourne Coal Co.'s properties and will, it is reported, increase capacity of mines; purchase price reported as \$250,000.

W. Va., Ingleside.—B. A. Johnson, Narrows, Va., has closed negotiations for 800 acres of coal lands; consideration \$15,000.

W. Va., Rawl (not a postoffice).—Crystal Block Coal & Coke Co. incorporated with \$100,000 capital stock by Howard N. Ravenston, L. E. Woods and Jackson Taylor, Jr., all of Gary, W. Va.; T. H. S. Curd and L. D. Wilmore, both of Welch, W. Va.

W. Va., Borderland.—Borderland Coal Co., main offices, Roanoke, Va., has not yet let contract for construction of new plant; three bids received; no further bids asked; plant to consist of steel bridge over Tug River, pan conveyor, tipple, washer, shaking screens and electric-power plant of 450 horse-power; L. E. Armentrout, manager, in charge of construction, etc.

W. Va., Wheeling.—West Wheeling Coal Co. will erect tipple.

CONCRETE AND CEMENT PLANTS

La., New Orleans.—Gulf States Structural Concrete Co. (recently noted) organized with \$100,000 capital stock; will manufacture and deal in structural concrete materials and take contracts for concrete paving, erection of concrete buildings, etc.; has patent rights of Julius G. Zwicker of Indianapolis, Ind., and Mexico; immediate manufacture to be asphalt-jointed concrete roofing blocks.

Va., Graham.—Walter Graham, Harrison Bldg., Philadelphia, Pa., and associates plan construction of Portland cement plant.

COTTON COMPRESSES AND GINS

Tex., Praterville, R. F. D. from Cooper.—L. J. Shumate has plans by H. Jenkins for rebuilding of gin recently reported burned; 20x60 feet; ordinary construction; cost \$1500; will open bids about May 1; will install four gin stands; cost \$2900. (See "Machinery Wanted.")

COTTONSEED-OIL MILLS

N. C., Rockingham.—W. A. Everett contemplates erection of cottonseed-oil mill.

N. C., Salisbury.—Arey Oil & Fertilizer Co., previously reported organized by D. L. Arey, W. B. Strachan and J. A. Sossamon to erect three-press cotton-oil mill; will let contract for machinery February 22. (See "Machinery Wanted.")

S. C., Chester.—T. B. Gibson, McColl, will not erect cottonseed-oil mill as recently reported.

DRAINAGE AND IRRIGATION SYSTEMS

La., Estherwood.—Roller Canal Co. will install 40,000-gallon pump and improve canal.

La., New Iberia.—Suburban Realty Co. incorporated to develop and reclaim swamp and overflowed lands; J. Wofford Sanders, St. Martinville, La., is president; George W. Dallas, New Iberia, Secretary.

La., New Orleans.—Garden City Drainage Co. incorporated with \$500,000 capital stock; Edward Wisner, president; A. T. Duesbury, vice-president; G. W. Klare, secretary-treasurer; company takes over holdings of Louisiana Meadows Co., comprising several thousands of acres of swamp lands; these lands to be converted into small farms and truck gardens after plans recently noted in connection with bonds to be underwritten by Trowbridge & Niver of Chicago, Ill.

Tex., Cotulla.—La Salle Water Storage Co. (recently reported incorporated under "Water-Works") will construct reinforced concrete dam, 22 feet high and 550 feet long, across Neches River two miles from Cotulla; dam will hold about 43,000,000 cubic feet of water, covering estimated area of 640 acres; Young & Co., San Antonio, Tex., are contractors; W. H. Hargus is president of company; J. H. Rees, vice-president, and A. D. Riddle, secretary.

Tex., Chaplin.—D. B. Chaplin awarded contract for construction of main canal 35 miles long and about 50 miles of laterals for irrigation of 100,000 acres of land in Hidalgo county in vicinity of Chaplin; main canal

will intersect Rio Grande at point southwest of McAllen and then extend in northeasterly direction connecting Conception and San Jose lakes, which form reservoir; capacity of lakes when filled is sufficient to irrigate entire acreage; during eight months of year reservoir will have gravity feed direct from Rio Grande, though 36-inch pump will be installed at river for emergency purposes; from San Jose Lake, canal will be excavated directly north for two miles, where two 36-inch pumps will be installed; from north end of this canal main surface canal will extend in northerly direction, passing within 3½ miles of Chaplin; contracts for pumping plants will soon be awarded. Fred Warren is chief engineer in charge of work.

Tex., Galveston.—Commissioners Galveston County Drainage District No. 1, Arcadia, Tex., R. H. Bushway, chairman, Algon, Tex., contemplates awarding additional drainage contract to J. C. Kelso of Galveston; amount, \$25,000 to \$30,000. (Previously noted contract at \$56,820 to Mr. Kelso for constructing drainage canals, grubbing, etc.)

ELECTRIC-LIGHT AND POWER PLANTS

Ala., Opelika.—City will vote March 28 on \$85,000 bond issue for city electric-light plant and water system. L. F. Dickson, Mayor.

Ala., Talladega.—Alabama Power & Development Co., R. A. Mitchell, president, Gadsden, Ala., is arranging to extend transmission lines to Anniston, Ala., by way of Jackson Shoals, on Choccolocco Creek and eventually to develop power at shoals; Anniston Electric & Gas Co.'s plant will furnish electricity.

Ark., McGehee.—T. Q. Woodward, Pine Bluff, Ark. (lately awarded franchise to install city electric-light and water plants), will open bids February 12 on construction work and machinery; equipment to be purchased includes two 100-horse-power boilers, engine, air compress, 1100-kilowatt alternating-current 60-cycle generator and exciter; also two compressed tandem duplex pumps, water capacity 450,000 gallons per 24 hours; 60x60-foot building will be erected at cost of \$3000. Address E. F. Curran, Box 116, McGehee. (See "Water-works.")

Ark., Nashville.—City, R. Tom Adams, clerk, desires correspondence relative to installation of electric-light plant. (See "Machinery Wanted.")

Fla., South Jacksonville.—City invites proposals for electric-light franchise; R. V. Rogers, City Clerk. (See "Machinery Wanted.")

Ga., Creighton.—Blue Ridge Power Co., H. E. Gaffney, president, Bradford, Pa., awarded contract for constructing plant to Frank B. Gilbreth, Inc., 60 Broadway, New York; will build Ransome hollow dam 42 feet high by 600 feet long and reinforced concrete power-house for 4000 horse-power installation; plans and specifications for dam furnished by Hydraulic Properties Co., 60 Broadway, New York. (Previously reported organized, etc.)

Ga., Lafayette.—City Council is considering construction of electric-light plant; correspondence invited; C. J. Hammond, City Recorder. (See "Machinery Wanted.")

Ga., Waycross.—Ware County Light & Power Co. incorporated with \$250,000 capital stock by Burdette Loomis and Burdette Loomis, Jr., Hartford, Conn.; Leon A. Wilson, W. W. Lambdin and John A. Bennett, all of Waycross, Ga., and P. R. Bomeisler, East Orange, N. J.; will take over Waycross Light & Power Co. and make various improvements at estimated cost of \$150,000. (Recently mentioned.)

Ga., Willacooche.—City awarded contract to J. B. McCrary & Co., Atlanta, Ga., to construct electric-light plant; cost of building, \$7000.

Ky., Bowling Green.—City is proceeding with reconstruction of electric-light plant; G. E. Townsend, Mayor.

Md., Baltimore.—Michael Schloss of Schloss Bros. & Co., Pa. and Baltimore Sts.; John W. Snyder of Hammond-Snyder & Co., Chamber of Commerce Bldg.; Joseph R. Gunther, American Bldg., all of Baltimore, and others propose incorporation of Baltimore Light, Heat & Power Co. with \$500,000 capital stock; planned to consolidate with Baltimore Heating & Refrigerating Co.

Mo., Smithville.—Smithville Electric Light Co., Harry Gordon, manager, awarded contract to Harry Weidlin for rebuilding plant;

structure to be 45x65 feet; concrete blocks; will install crude-oil engines and 60-cycle machines; will construct transmission line to Edgerton, Mo.; recently incorporated noted under Smithville, Md. (See "Machinery Wanted.")

N. C., Durham.—Durham Traction Co. (recently noted to erect addition and install machinery) has contracted for Corliss engine for direct connection to 600-kilowatt three-phase 60-cycle 2300-volt alternator, with switchboard and instruments; also ordered vacuum and centrifugal pumps and 2000 square feet surface condenser and natural-draft cooling tower with capacity of handling 2500 gallons per minute. (See "Machinery Wanted.")

Okl., Altus.—City voted issuance of \$35,000 of bonds for improvements to electric-light plant. Address The Mayor. (Recently mentioned.)

S. C., Anderson.—Anderson Water, Light & Power Co. is installing three step-up transformers, at cost of about \$15,000, which will increase capacity of electric power plant at Fortman Shoals, on Seneca River.

Tenn., Nashville.—Fisk University, George A. Gates, president, will construct central light and heat plant and make other improvements; \$50,000 appropriated. (Lately noted.)

Tex., Elgin.—Elgin Light & Power Co., Thomas L. Deisch, president (recently noted to install \$14,000 electric-light plant), will erect brick and galvanized iron building; will install steam direct-connected 75-k.w. 2300-volt 3-phase machinery.

Tex., Huntsville.—Huntsville Electric Light & Ice Co. contemplates dissolution; two new companies to be organized, namely, Huntsville Light & Power Co. and Huntsville Ice Co.; C. H. Robinson to have charge of purchasing, etc. (See "Machinery Wanted.")

Tex., McAllen.—McAllen Ice & Power Co. incorporated with \$15,000 capital stock by R. S. Pershing, R. B. Pershing, Albert Simmons and others.

Va., Lynchburg.—Clem S. Leftwich, Greensboro, N. C., contemplates construction of hydro-electric plant on James River at Judith's dam, four miles from Lynchburg; to develop 2000 to 2500 horse-power; electric power to be transmitted to Lynchburg, etc.; engineer will probably be employed to make plans for development. (See "Machinery Wanted.")

W. Va., Fort Spring.—B. F. Mann is having plans and specifications made by N. Willson Davis, Winchester, Va., for water-power-electric plant previously noted; will install machinery to develop 1400 horse-power; concrete dam 55 feet high; no contract to be let.

W. Va., Kingwood.—Glade Lumber Co., J. E. Stitzinger, manager, Woodbine, W. Va., will build electric plant.

W. Va., Millville.—Winchester & Washington Railway, Winchester, Va., awarded contract at about \$50,000 to Westinghouse Electric & Manufacturing Co., Pittsburg, Pa., to furnish turbines and electric generator for steam power plant on Shenandoah River at Millville, as auxiliary to water-power-electric plant; estimated total cost of plant about \$100,000. (Mentioned in December.)

FERTILIZER FACTORIES

Md., Baltimore.—Hubbard Fertilizer Co., 802 Keyser Bldg., will erect \$5000 storage building at Canton, Baltimore; wood construction; 100x204 feet; electric lighting; plans and erection by company; work to begin about March 1.

FLOUR, FEED AND MEAL MILLS

Ky., Cornishville.—Cornishville Mill Co. incorporated with \$10,000 capital stock by J. E. Sims, N. B. Royalty and G. W. Isham.

S. C., Saluda.—J. G. Mayson contemplates re-erection of grist mill recently reported burned.

S. C., Spartanburg.—Carolina Milling Co., J. W. Bell, president, is proceeding with addition to plant; will increase daily capacity to 3000 bushels; machinery mainly purchased. (See "Machinery Wanted.")

FOUNDRY AND MACHINE PLANTS

Ala., Anniston.—Lee Foundry Corporation, John B. Lee, president, awarded contract to Powell & Wolsoncroft, Anniston, for erection of buildings recently mentioned; foundry 60x150 feet; fireproof cupola-house, etc.; cost of buildings, \$5100; manufactures gray-iron castings, principally sash weights; daily capacity, 20 tons.

Ga., Rome.—Iron Pipes.—Rome Solpipe Manufacturing Co., J. L. Bass, president

(recently noted under "Metal-working Plants"), has plans by Georgia Engineering & Construction Co., Augusta, Ga., for building; machinery purchased; daily capacity, one carload solpipe; \$35,000 capital stock; J. L. Bass, president; O. N. Richardson, general manager; J. T. Tidman, superintendent.

Md., Baltimore.—Foundry.—Dietrich Bros., North and Pleasant Sts., purchased site at 345 Davis St. and will erect foundry and warehouse.

Miss., Tylertown.—Foundry.—W. C. Byington will erect repair shop and foundry.

Miss., Tylertown.—W. C. Byington will install machine shop.

Mo., Macon.—Gray Iron Castings.—McCall Manufacturing Co. will establish gray iron foundry to manufacture castings for farm implements.

N. C., Charlotte.—Yarborough & Bellinger Company will rebuild plant reported burned; size of building, 72x103 feet; steel construction; galvanized roof; corrugated sides.

S. C., Union.—Union Iron Foundry will vote February 19 on increasing capital stock from \$5000 to \$10,000.

Tenn., Chattanooga.—Iron Works.—Chattanooga Roofing & Foundry Co. will erect two-story addition to wrought-iron department; 60x70 feet; galvanized-iron roofing; heavy slow-burning mill construction; steam heating; electric lighting; bids opened.

Tenn., Huntington.—Gas Plant.—Eaton-Severance Syndicate (recently reported incorporated with \$25,000 capital stock) has completed organization with V. C. Severance president, D. L. King vice-president, O. C. Tidwell secretary, Allen S. Eason treasurer, W. E. Halley general manager; will establish plant for manufacturing gas plant, an invention for making fuel for lighting, heating and cooking purposes by cold process.

Tex., Beaumont.—Iron Works.—C. T. Heisig and T. W. Larkin purchased at \$50,100 Beaumont Iron Works and will, it is reported, improve and operate.

Tex., Goliad.—General Repair Shop.—J. W. Walton awarded contract to Miller & Son, Goliad, for erection of machine and repair shop recently mentioned; ordinary construction; size 36x82 feet; general repair shop tools to be installed. (See "Machinery Wanted.")

GAS AND OIL DEVELOPMENTS

Ark., Malvern.—City granted Arkansas Natural Gas Co., H. S. Grayson, representative, 30-year franchise for conveying and supplying natural gas through city.

Ky., Rockport.—M. F. Harrel & Sons will prospect for oil and gas. (See "Machinery Wanted.")

Okl., Chilton.—Globe Oil & Development Co. incorporated with \$10,000 capital stock by J. A. Avant, E. M. Boring and Chas. W. Goodwin.

Okl., Claremore.—Pryor Creek-Choteau Gas Co. (recently reported incorporated with \$50,000 capital stock) contemplates piping 22 miles of natural gas from main line of Caney River Gas Co. to Choteau and Pryor Creek; will install complete system of distributing pipes in both cities; will open bids in about 30 days; G. W. Eaton, president; B. H. Hester, vice-president; G. A. Schmitt, secretary and treasurer. (Also recently noted under Pryor Creek.)

Tex., Jefferson.—Citizens' Oil & Gas Co. incorporated with \$15,000 capital stock; W. B. Ward, president; W. P. Schluter, vice-president; H. L. Eldridge, secretary-treasurer.

W. Va., New Cumberland.—Freedom Oil & Gas Co. awarded contract for construction of 32-mile pipe line from Gilmore county to Doddridge county, W. Va.

W. Va., Parkersburg.—Watson Drilling Co. organized with James A. Watson, president; G. T. Lowther, vice-president; C. E. Chalfant, secretary; C. C. Bell, treasurer.

W. Va., Parkersburg.—Watson Drilling & Development Co. incorporated with \$25,000 capital stock by C. E. Chalfant, James A. Watson, A. Williams, all of Parkersburg; C. S. Sims, Comos, W. Va., and V. S. Lynch, Buckhannon, W. Va.

ICE AND COLD-STORAGE PLANTS

Ga., Atlanta.—L. A. Roy, Chicago, Ill., representative of Intermittent Vacuum Pre-Cooling Co., will erect pre-cooling plant at Atlanta for use of Georgia Fruit Exchange.

Ky., Louisville.—Kentucky Packing Co. will install cold-storage and ice machinery at plant, Floyd and N Sts.; estimated cost of improvements, \$100,000.

Miss., Hattiesburg.—Armour & Co., Chicago, Ill., will erect cold-storage plant; cost \$30,000; F. J. Millette, local manager.

N. C., Murphy.—Rollin Dockery will install cold-storage and ice-machinery. (See "Machinery Wanted.")

Tenn., Lawrenceburg.—Pure Ice Co. has purchased building; will remodel and install ice machinery.

Tex., Aransas Pass.—Aransas Pass Ice & Cold Storage Co., Geo. W. Calhoun, president (previously noted incorporated with \$50,000 capital stock) has purchased machinery for plant; capacity, 50 tons daily and general cold storage; will erect brick and steel fireproof building, 100x135 feet, at cost of \$8000; architect, J. W. McBride, Aransas Pass.

Tex., Harlingen.—Harlingen Ice Manufacturing & Gin Co. is title of company incorporated with \$20,000 capital stock and recently noted organized by R. W. Horlock, Navasota, Tex.; Lon C. Hill, C. W. Cliff and Jacob Miller of Harlingen, to establish 25-ton refrigerating plant.

Tex., Huntsville.—Huntsville Ice Co. will be organized; C. H. Robinson interested. (See "Electric-Light & Power Plants.")

Tex., McAllen.—McAllen Ice & Power Co. incorporated with \$15,000 capital stock by R. S. Pershing, R. B. Pershing, Albert Simmons and others.

Tex., Teague.—Central Texas Ice Co., Mexia, Tex., has not awarded contract for erection of buildings; main building will be 70x60 feet; boiler-house, 30x50 feet; frame; building proposals open; cost of machinery, \$20,000; daily capacity, 30 tons of ice. Address A. H. King, Mexia, Tex. (Contract for machinery recently noted awarded to York Manufacturing Co., York, Pa.)

LAND DEVELOPMENTS

Ala., Montgomery.—Ideal Industrial & Home Sites Co. has increased capital stock from \$50,000 to \$115,000.

Fla., Pensacola.—North Pensacola Heights Co., incorporated with \$30,000 capital stock, will develop 35 to 40-acre tract as residential section; John N. Day, president; J. F. Rhodes, vice-president; Pattillo Campbell, secretary.

Fla., Tarpon Springs.—Charles S. Evans, Chicago, Ill., it is reported, has purchased for colonization 10,000 acres of land near Tarpon Springs.

Ga., Atlanta.—William J. Davis has purchased 100 acres of land at intersection of Gordon St. and Cascade Ave., and will develop as residential park-to be called West End Park; is having property surveyed and mapped by S. Z. Ruff; will construct sidewalks, paved streets, etc.

Miss., Clarksdale.—Riverton Land Co. incorporated with \$10,000 capital stock by J. I. Ford and D. J. Gay.

Mo., St. Louis.—Phoenix Land Co. incorporated with \$475,000 capital stock by George B. McMannon, Arthur E. Francis, F. J. McMaster and others.

N. C., North Wilkesboro.—Kensington Heights Company incorporated with \$15,000 capital stock by C. M. Rock, W. H. Horton, both of North Wilkesboro, and G. W. Hinchshaw of Winston-Salem, N. C.; will develop 10½-acre tract as residential section; contemplates grading driveways and walks; will let contracts to local contractors; engineer in charge, C. W. Hackett, North Wilkesboro.

N. C., Winston-Salem.—Forsyth Development Co. incorporated with \$50,000 capital stock by R. S. Galloway, J. E. Kavenaugh, A. H. Eller and others.

S. C., Columbia.—Camp Farnace Development Co., 1402 Main St., incorporated with \$50,000 capital stock, will develop 110-acre tract as residential section, construct boulevard 60 feet wide, one mile long; will grade sidewalks and streets; approximate cost, \$5000; will receive bids for construction and surveying until February 18; F. H. Weston, president; Dr. J. E. Moore, vice-president; H. N. Edmunds, secretary and treasurer. Address H. Caldwell, manager.

Tenn., Memphis.—Morningside Heights Real Estate Co. incorporated with \$50,000 capital stock by E. R. Farham, Charles B. Brooks, W. A. Hein and others; has plans by Mr. Kessler, Kansas City, Mo., for developing 30 acres of land in subdivision.

Tenn., Nashville.—Martin Land Co. incorporated with \$25,000 capital stock by W. M. Martin, John T. Menefee, Jr., R. E. Martin and others.

Tex., Cotulla.—D. A. Walker, San Antonio, Tex., has purchased 880 acres of land and will develop for irrigated farm.

Tex., San Antonio.—Southwest Texas Land Co. incorporated with \$30,000 capital stock by C. D. Gilliam, C. H. Dean, W. H. Dickson and W. L. Quinn.

Tex., Victoria.—Victoria Cattle Co. incor-

porated with \$25,000 capital stock by Frank B. Lander, Ben W. Fly and M. H. Williams, Va., Norfolk.—Norfolk Axis Corporation incorporated with \$50,000 capital stock; J. W. Hough, president; T. S. Southgate, vice-president; F. M. Smith, Jr., secretary-treasurer.

W. Va., Huntington.—Hans Watts Realty Co. incorporated with \$100,000 capital stock by Hans Watts, C. L. Thompson, Jesse Watts and others.

LUMBER-MANUFACTURING PLANTS

Ala., Mobile.—Gulf Manufacturing & Export Co. incorporated with \$20,000 capital stock by Paul B. Ray, Edward Gaines and R. W. Stoultz.

Ga., Columbus.—Muscogee Lumber Co. organized to establish lumber plant; C. I. Jones interested. (See "Machinery Wanted.")

La., Lake Charles.—Lake Charles Planing Mill Co., G. Mutesbaugh, president, will make improvements to plant, including installation of electric-power to replace steam-power; equipment purchased.

La., Norwood.—O. L. Bennett will establish planing and saw mill; later contemplates establishment of box and spoke factory.

Mo., Campbell.—J. E. Morris Lumber Co. incorporated with \$10,000 capital stock by Benjamin Gratz, L. F. Jones and J. E. Morris.

Mo., Hollywood.—Lasswell Land & Lumber Co. incorporated with \$25,000 capital stock by J. P. Lasswell, J. W. Grider and W. A. Post.

Mo., Piedmont.—Carter Timber & Mercantile Co. incorporated with \$60,000 capital stock by Charles Carter, John T. Rutledge, L. A. Sparks and others.

N. C., Asheville.—Norwood Lumber Co., has, it is rumored, purchased 15,000 acres Swain county timber land from Harris-Woodbury Lumber Co.; purchaser reported as contemplating development.

N. C., Durham.—John Benson, Charles Lyerly and William Lyerly have purchased 900 acres of timber and will establish sawmill with 35,000 feet daily capacity.

N. C., Kinston.—Kinston Carolina Railroad & Lumber Co. incorporated with \$35,000 capital stock by E. T. Lamb, president; W. B. Roper, vice-president; Mathias Manly, secretary-treasurer; will take over J. L. Roper Lumber Co.

N. C., Wilmington.—Chadbourn Sash, Door & Lumber Co., M. W. Divine, president, has awarded contract for rebuilding plant reported burned; buildings will be 40x90 and 20x90 feet; machinery purchased; daily capacity, 30,000 feet of dressed lumber.

Okl., Oklahoma City.—Wainwright Lumber Co. incorporated with \$25,000 capital stock by George G. Sohler and W. R. Wainwright, Oklahoma City, and John G. Wester, Winona, La.

Tenn., Chattanooga.—William & Voris Lumber Co. increased capital stock from \$25,000 to \$110,000.

Tenn., Memphis.—Gibson Whitaker Company, C. L. Wheeler, president, awarded contract to W. C. O'Brient for addition of bandmill to lumber plant; machinery purchased; 30,000 feet hardwood lumber daily capacity. (Recently noted.)

Tenn., Memphis.—American Lumber Co., Inc., 103 Porter Bldg., succeeds American Lumber Co.; no new equipment contemplated. (Recently noted incorporated with \$30,000 capital stock by J. Lindsay Wells and others.)

Tex., Bon Wier.—Caney Creek Lumber Co. incorporated with \$25,000 capital stock by B. B. Stewart, W. A. Moore and J. Harrison.

Tex., Kosse.—Kosse Lumber Co. incorporated with \$7000 capital stock by A. W. Bryant, W. A. Williams and A. T. Dally.

Tex., San Antonio.—Griffith Lumber Co. incorporated with \$20,000 capital stock by John Griffith, Albert Griffith and Johnson Griffith.

Va., Bedford City.—Bedford City Lumber Co. incorporated with \$50,000 capital stock; E. A. Overstreet, president; J. A. Smith, vice-president; R. C. Overstreet, secretary-treasurer.

W. Va., Morgantown.—Rightmire-Shriver Lumber Co., A. Rightmire, president, will rebuild plant recently reported burned; will probably erect two-story 50x80-foot fireproof building; will not employ architect; no contract; will install small planer, jointer, combination rip and cut-off saw. Address R. C. Shriver, secretary.

W. Va., Fayetteville.—Krebs Lumber Co.

purchased tracts of timber in Webster and Greenbrier counties and will establish mills.

W. Va., Huntington.—Hutchison Lumber Co. incorporated with \$50,000 capital stock by R. L. Hutchison, W. R. Locke, M. J. Ferguson and others.

W. Va., Kingwood.—Glade Lumber Co. incorporated with capital stock of \$200,000 to develop timber lands recently noted purchased by G. G. Stitsinger, Newcastle, Pa., and associates; purchase includes 8886 acres timber in Preston and Tucker counties; price \$170,000; lands also contain limestone, oil and gas, which will be developed in future; company will construct seven-mile standard-gauge railway on Cheat River to timber and construct band-saw mill, machine shop, electric-light plant, hotel, 40 dwellings, etc.; expenditure about \$125,000; will begin development in early spring under management of J. E. Stitsinger of Woodbine, W. Va.; will sell output through Newcastle office of G. G. Stitsinger & Co., which also handles output of firm's mill at Woodbine, W. Va.

W. Va., Pennsboro.—Pennsboro Manufacturing Co. incorporated with \$25,000 capital stock by N. J. Scott, Pennsboro; J. A. Vigney, Bellington, W. Va.; A. D. Bessell, Lost Creek, W. Va., and others.

W. Va., Swiss.—Flynn Lumber Co. has increased capital stock from \$100,000 to \$200,000.

METAL-WORKING PLANTS

N. C., Charlotte.—Signs.—Charlotte Sign Works will install sheet metal-working machinery in order to increase capacity. (See "Machinery Wanted.")

MINING

Ala., Bessemer.—Brown Ore.—D. W. Hanby has leased and will develop brown-ore mines in St. Clair county.

Ala., Birmingham.—Sand.—Savage Sand Co. incorporated with \$10,000 capital stock; J. W. Savage, president; Edward Hiller, vice-president and treasurer; Thomas H. Simms, secretary and general manager.

Ala., Dora.—Iron.—Goodwin Mining & Mercantile Co. (recently reported incorporated with \$2500 capital stock) has 440 acres in working condition with daily output of 600 tons iron; machinery purchased; P. O. Goodwin, president and treasurer; M. Aaron, vice-president and secretary.

Ga., Tlaga, P. O. Ellijay.—Iron.—Tlaga Iron Co. organized with E. W. Watkins, Jr., vice-president, has leased and will develop Fields Iron property.

Mo., St. Louis.—Keystone Mining Co. incorporated with \$3000 capital stock by William Einstein, Frederick Widman and Leo Basileur.

Mo., Webb City.—Lead and Zinc.—Heist Mining Co. incorporated, with \$3000 capital stock, by W. W. Wampler, C. E. Matthews and O. N. Wampler.

N. C., Bessemer City.—Wells Mining Co. incorporated with \$2500 capital stock by J. L. Phifer, Bessemer City, and P. T. Durham, Concord, N. C.

N. C., Franklin.—Clay.—Southern Clay Co. is proceeding with construction of proposed plant on Johnston property; main building, 112x220 feet; output, 40 to 50 tons daily; purchased 300,000 feet of lumber; power furnished by 100-horse-power engine and 150-horse-power boiler; will construct dam about 10 feet high, supplied by two or three springs in reservoir; may drill one or two artesian wells; will use American Blower Co.'s tunnel drying system; operations to begin by April; branch of Golding Sons' Company, Trenton, N. J.

N. C., Louisburg.—Gold.—Portis Mining Co. is purchaser of Portis gold property mentioned last week; was incorporated with capital stock of \$2,000,000; purchased property for \$150,000, and for some time has been progressing with preliminary developments, tests, etc.; will install seven-foot bucket gold dredge with daily capacity of 5000 cubic yards, 40 pulverizers and concentrators of same capacity, pumping station with daily capacity of 6,000,000 gallons, 700-horse-power electric plant, laborers' dwellings, officials' dwellings, etc.; cost of installation, \$300,000, and contracts expected to be awarded April 1; experimental plant (now operating) was erected at cost of \$30,000; property includes 500 acres and is located in Franklin county, 20 miles from Louisburg; company's consulting engineer is Alexander P. Rogers of New York city; company's secretary is Maurice Brooke at main offices, 703 Empire Bldg., Philadelphia, Pa.

N. C., Neverson.—Rock.—Norfolk & Southern Railroad, F. L. Nicholson, chief engineer, Norfolk, Va., has purchased and will

develop 41 acres of land containing rock deposits; will install crushers and quarrying machinery.

Tenn., Butler.—Iron.—Maxwell-Knight Iron Co., recently reported incorporated with \$100,000 capital stock, has elected Harry V. Maxwell, president and manager; E. P. Knight, vice-president; H. J. Knight, secretary and treasurer; will develop 600 acres of brown-ore land and increase capacity of plant by installing machinery. (See "Machinery Wanted.")

Tenn., Memphis.—Muddy Valley Mining Co. incorporated with \$50,000 capital stock by H. W. Tolle, James Forrest, A. L. Parker, W. P. Halliday and B. S. Parker.

Tenn., Johnson City.—Sand.—J. H. Smalling contemplates development of sand deposits on 70 acres of land.

Tenn., Nashville.—Phosphate.—National Phosphate Co. (recently reported incorporated with \$25,000 capital stock) will develop 100-acre tract, with daily output of 100 tons of phosphate; mines equipped; Granberry Jackson, president; Phillip Miller, vice-president; Edward Cooper, secretary-treasurer.

Va., Evinston.—Iron.—Flat Creek Mining Co. incorporated with \$10,000 capital stock; C. T. Saunders, president; M. G. Saunders, vice-president; Fleming Saunders, secretary-treasurer.

Va., Bedford County.—Feldspar.—Earl L. Myers, Finley, O., will develop feldspar deposits.

MISCELLANEOUS CONSTRUCTION WORK

Ala., Selma.—Wharf.—Commercial and Industrial Association is considering construction of wharf for river shipping; estimated cost, \$20,000 or \$30,000; J. L. Clay, R. H. Agee and B. J. Schuster comprise wharf committee of association.

La Gueydan.—Levee.—Bids are invited for construction of 60,000 cubic yards of levee work. Address A. Kaplan, Crowley, La. (See "Machinery Wanted.")

Tenn., Etowah.—Bids invited for enlarging canal; 10,000 cubic yards excavation; T. A. Aber, assistant engineer, Etowah. (See "Machinery Wanted.")

Tenn., Knoxville.—Louisville & Nashville Railroad, W. H. Courtenay, chief engineer, Louisville, Ky., awarded contract to Callahan Construction Co. of Knoxville to construct tunnel 520 feet long in connection with extension of railway.

Tenn., Nashville.—Heating Plant.—Fisk University, George A. Gates, president, will construct central heating and lighting plant and make other improvements; \$50,000 appropriated. (Recently mentioned.)

Tex., Galveston.—Beach Improvements.—MacGill & Abbott of Galveston have contract at \$8479 to construct 16 groynes on beach front and have begun work; groynes will be cross-tied lumber and extend from sea wall slope out into Gulf distance of 275 feet; double plank piling to be driven at intervals of eight feet. (Mentioned in November.)

Va., Roanoke.—Norfolk & Western Railroad, C. S. Churchill, chief engineer, awarded contract to D. W. Flicker of Roanoke to construct tunnel 4700 feet long, and to J. R. Serpell & Son, Louisville, Ky., for tunnels east of Huger, W. Va., in connection with laying of trackage.

MISCELLANEOUS ENTERPRISES

Ala., Birmingham.—Amusement Park.—Mountain Lake and Amusement Co. incorporated, with \$15,000 capital stock; R. W. Wright, president; C. E. Halls, vice-president and general manager; W. E. Thomas, secretary; to establish summer park.

Ala., Birmingham.—Construction Company.—Magic City Construction Co. incorporated, with \$12,000 capital stock; C. J. Phillips, president, Birmingham; A. Taylor, vice-president, Richfield, N. C.; H. T. Brown, secretary-treasurer, Birmingham.

Ala., Birmingham.—Construction.—Hodges-Downey Construction Co. incorporated with \$300,000 capital stock; James Downey, president and general manager; H. C. Hodges, vice-president; J. C. Hodges, secretary-treasurer.

Ala., Mobile.—Electrical Machinery.—Schenher-Aldor Electric Co. incorporated with \$2500 capital stock by William D. Schenher, Samuel C. Allard, Reub Baerman and Hyman Baerman.

Ala., Montgomery.—Electrical Construction, etc.—Reeves-Walker Electric Co. incorporated, with \$10,000 capital stock; Rudolph M. Walker, president; Raymond P. Reeves, secretary-treasurer.

Ala., Montgomery.—Hardware.—Minchener

Hardware Co. incorporated, with \$7500 capital stock; J. R. Minchener, Fred S. Ball and W. H. Samford.

Ark., Paragould.—Rice Cultivation.—Arkansas Land & Development Co. incorporated with \$100,000 capital stock; T. J. Montgomery, president; J. P. Baker, vice-president; W. C. Poole, secretary-treasurer; will develop rice lands.

Fla., Plant City.—Garage.—S. E. Mays has awarded contract to R. E. Fletcher for erection of garage and automobile repair shop.

Fla., Tampa.—Garage.—W. T. Boyd will erect garage; two stories; brick; 135x105 feet; cost \$50,000; plans prepared.

Ga., Cornelia.—Orchard.—Georgia Mountain Orchards incorporated with \$20,000 capital stock by Fremont W. Spicer, Robert E. Davidson and Frank McCallis, Kings county, New York, and Wm. B. Hunter, Cornelia.

Ga., Dalton.—Printing, etc.—A. J. Showalter Company will erect glass addition about 24 feet square for linotype machines; will replace 40-horse-power boiler with one of 75 to 100 horse-power capacity.

Ky., Ashland.—Garage.—Wellman Motor Car Co. purchased site 60x60 feet, and will erect garage.

Ky., Lexington.—Stone.—Lexington Crushed Stone Co. incorporated with \$1500 capital stock by Ed. Lenahan, Cullen Crews and T. V. Forman.

Ky., Lexington.—Tobacco Redrying Plant.—J. P. Taylor Company, South Limestone St., will rebuild portion of redrying plant reported burned; loss \$10,000.

Ky., Louisville.—Stockyards.—Bourbon Stockyards Co. has purchased a 250,000 site of three acres on Beargrass Creek and will erect cattle pens, barns and sheds; plans have been prepared.

La., New Orleans.—Rice Mill.—L. D. Marks, Crowley, La., will, it is reported, establish rice mill at New Orleans; Phillip Rahm, contractor, New Orleans.

Md., Baltimore.—Amusement Park.—Luna Park Amusement Co. of Baltimore City, incorporated with \$50,000 capital stock; office, 435 Equitable Bldg.; recently noted as planning development of Shipley property at West Baltimore St. and Garrison Ave. for amusement park; plans erection of auditorium, bandstand, rest sheds, carousel and various other amusement devices; cost of buildings and equipment, \$25,000; bids for building and equipment now open. Henry H. Geiglein, president; Thomas L. Grape, treasurer; J. J. Carmody, secretary.

Md., Baltimore.—Bakers and Confectioners' Supplies.—Cabell Company incorporated with \$5000 capital stock by Frederick M. Cabell, 1025 West Lanvale St.; John A. Handes and William E. McHugh.

Md., Baltimore.—Construction.—Stanfield-Beyan Construction Co. incorporated with \$5000 capital stock by J. E. Stanfield, 2522 Pennsylvania Ave.; Harry A. Loane and William F. Beyan.

Md., Baltimore.—Printing, Lithographing, etc.—Falconer Company, 5-7 North Gay St., purchased site at northwest corner of Gay and Water Sts., 80x125 feet, and will erect reinforced concrete building.

Miss., Pascagoula.—Orchard and Products. Gulf Coast Orchard & Products Co. incorporated with \$500,000 capital stock by Thos. W. Kracke, B. A. Flanders, J. W. Zink and H. B. Everitt; will develop Bitless Plantation as an agricultural, stock and poultry enterprise.

Mo., Kansas City.—Garage.—George A. Bond will erect garage; two stories; brick; site 17x160 feet.

Mo., St. Louis.—Printing.—J. B. Krieger, agent, Liggett Bldg., is having plans prepared by Stephens & Pearson, Missouri Trust Bldg., St. Louis, for printers' loft building near 9th and Walnut Sts.; seven stories; brick; stone; composition roof; ornamental and architectural iron; gas and electric fixtures, etc.; cost \$150,000. (Recently mentioned.)

N. C., Aulander.—Hardware, etc.—Carolina Building & Hardware Co. incorporated with \$25,000 capital stock by R. J. Dunning, W. M. Nichols and W. T. Dunning.

N. C., Canton.—Printing.—Canton Printing Co., recently reported incorporated, with \$5000 capital stock, will establish plant for printing; buildings constructed; will install machinery; cost \$3000; F. K. May, president; R. H. Sorrells, vice-president; Thomas D. Smith, secretary; J. H. Kirkpatrick, treasurer.

N. C., Charlotte.—Printing.—A. M. E. Zion Company will erect four-story printing and office building.

N. C., Fayetteville.—Machinery.—Machinery Exchange incorporated with \$25,000 capital stock by J. G. Humphrey, C. L. Curry and D. S. McRae.

Okla., Oklahoma City.—Bottling.—Western Mineral Water Co., 202 West 2d St. (recently reported incorporated with \$30,000 capital stock), elected Clark C. Hudson president, E. T. Bynum vice-president and W. T. S. Hunt secretary-treasurer.

S. C., Columbia.—Laundry.—Capital City Steam Laundry Co. incorporated, with \$25,000 capital stock; C. C. Pearce, president; J. A. Young, vice-president, secretary and treasurer.

S. C., Columbia.—Steam Laundry and Dye Works.—Capital City Steam Laundry and Dye Works incorporated with \$25,000 capital stock by C. C. Pearce, J. A. Young and Henry H. Young.

Tenn., Knoxville.—Dyeing and Cleaning.—J. A. Schifers, proprietor Phoenix Dye Works, Union Ave., has purchased site 80x150 feet and will erect dyeing and cleaning plant; fireproof; one story.

Tenn., Memphis.—Construction and Contracting Co.—D. M. Crawford Company incorporated with \$10,000 capital stock by D. M. Crawford, W. K. Burnette, S. C. Shepherd and others.

Tenn., Memphis.—Planting.—Deer Creek Planting Co. incorporated with \$10,000 capital stock by M. H. Hearn, R. L. Biles, W. F. Godwin and others.

Tenn., Memphis.—Hardwoods, Fertilizer, etc. Memphis Hardwood, Ash & Fertilizer Co. incorporated by J. E. McIntyre, Joe Randall, L. Grimes, etc.

Tenn., Memphis.—Building Company.—D. M. Crawford Company incorporated, with \$10,000 capital stock, by D. M. Crawford, W. K. Burnett, C. S. Shepherd and others.

Tenn., Nashville.—Publishing.—Webb Publishing Co. incorporated with \$40,000 capital stock by A. C. Webb, H. C. Webber, A. E. Booth and others; will publish textbooks on drawing and manual arts.

Tex., Alpine.—Publishing.—Alpine Publishing Co. incorporated with \$5500 capital stock by James P. Wilson, J. D. Jackson and W. S. Dunbar.

Tex., Amarillo.—Publishing.—Amarillo Publishing Co. incorporated with \$35,000 capital stock by J. E. Nunn, J. W. McGummon and Charles Martin.

Tex., Canadian.—Laundry.—W. A. Woodrow, Melford, Okla., will install steam laundry.

Tex., Houston.—Orchards.—La Porte Orchard Co. incorporated with \$10,000 capital stock by Daniel Powell, J. H. Powell and W. A. Pitrat.

Tex., Houston.—Photograph Supply.—Schaeffer Photograph Supply Co. incorporated with \$20,000 capital stock by A. E. Schaeffer, L. C. Irons and N. B. Judd.

Va., Lynchburg.—Printing.—Ould Printing Co. incorporated with \$10,000 capital stock; J. C. Ould, president; W. L. Ould, vice-president; S. D. Edwards, secretary.

Va., Norfolk.—Steamboat Line.—Bennett's North Carolina Line incorporated with \$1000 capital stock; E. E. Bennett, president; John W. Bennett, vice-president; H. B. Bennett, secretary-treasurer.

Va., Roanoke.—Grain and Elevator Company.—Wertz Grain & Elevator Co. incorporated with \$15,000 capital stock; F. L. Wertz, president; Joseph M. Morris, vice-president; John M. Morris, secretary and treasurer.

W. Va., Huntington.—Hardware.—Love, Brinker & Co. incorporated with \$25,000 capital stock by C. M. Love, Edward E. Brinker, D. B. Daugherty and others.

MISCELLANEOUS MANUFACTURING PLANTS

Ala., Bessemer.—Drugs.—Pegram-Palmer Drug Co. incorporated with \$10,000 capital stock; W. E. Pegram, Bessemer, president; George Pegram, Faunsdale, Ala., vice-president; W. C. Palmer, Jasper, Ala., secretary-treasurer.

Ala., Birmingham.—Roofing and Heating.—Foreman-Bragan Roofing & Heating Co. incorporated with \$7500 capital stock; W. H. Foreman, president; A. P. Bragan, vice-president; R. W. Kirkland, secretary-treasurer.

Ala., Birmingham.—Bottling.—Nova-Kola Company incorporated with \$25,000 capital stock; Milton D. Jones, president; D. J. Tucks, secretary-treasurer, both of Birmingham; Virgil Jones, vice-president, Atlanta, Ga.

Ala., Birmingham.—Bed Brace and Novelty. Birmingham Bed Brace & Novelty Co. incorporated with \$50,000 capital stock; J. L. Fletcher, president; Charles F. Jobst, vice-president; Frank Roland, secretary-treasurer.

Ala., Birmingham.—Extracts.—McClain Extract Manufacturing Co. incorporated with \$50,000 capital stock; C. C. McClain, presi-

dent; F. E. Blackburn, vice-president, and H. H. Irwin, secretary and treasurer.

Ark., Little Rock—Talking Machines.—Hollenberg Talking Machine Co. incorporated with \$22,000 capital stock by F. B. T. Hollenberg (president), G. J. H. Fisher and W. C. Fuhr.

D. C., Washington—Bakery.—Julius Dement will erect bakery on 14th St.; three stories; brick; John H. Nolan, contractor, 1413 G St. N. W., Washington.

D. C., Washington—Sporting Goods.—Strong Arm Manufacturing Co. incorporated with \$40,000 capital stock; W. P. Armstrong, president; C. E. Hatcher, treasurer; Dana White, Jr., secretary.

D. C., Washington—Bakery.—Washington Bakery incorporated with \$75,000 capital stock; F. S. Swindell, president; A. C. Hammer, vice-president; W. A. Johnston, secretary.

D. C., Washington—Drugs.—Christiani Drug Co. incorporated with \$50,000 capital stock; W. S. McClure, president; J. M. Craig, vice-president, 484 Pennsylvania Ave. N. W.; C. F. Collins, secretary-treasurer.

Ga., Atlanta—Beds.—Troupe Company incorporated with \$100,000 capital stock by D. D. Miller, Calvin E. Troupe, John D. Little and others.

Ga., Barnesville—Buggies.—Franklin Buggy Co. organized with R. A. Franklin, president, Jackson, Ga.; Ben Franklin, vice-president; T. J. Franklin, secretary-treasurer; A. H. S. Franklin, general manager, all of Barnesville.

Ga., Macon—Clothing.—Charles Wachtel Clothing Co. incorporated with \$25,000 capital stock by Charles Wachtel, A. H. Wachtel and P. D. Wachtel.

Ga., Rome—Pants, Tents, etc.—Sanders & Glover Pants & Tent Co. (recently noted incorporated, etc.) has about completed proposed plant; will operate 50 pants machines; also manufacture tents and canvas horse backbands.

Ky., Covington—Liquors.—Heimar Wine & Liquor Co. incorporated with \$15,000 capital stock by Harry Schwarte, George Heilman and Theodore Von Hoene.

Ky., Lexington—Tobacco.—Vaughn-Cunningham Tobacco Co. will erect brick addition to present building, extending it 150 feet; will drill artesian well, erect tower tank, install dynamo, etc.; also proposes adding large steamery.

La., New Orleans—Drykilns, etc.—Orleans Drykilns & Stacker Co., Room 404, Hibernia Bank Bldg., incorporated with \$10,000 capital stock; Lucius L. Lampton, president; Robert B. Lampton, vice-president; Eugene W. Reid, secretary and treasurer; William Graham, general manager; to manufacture horizontal and edge lumber stacking machinery, drykilns, etc. (See "Machinery Wanted.")

Md., Baltimore—Acid and Fertilizer.—F. S. Royster Guano Co., Norfolk, Va., purchased Tyson's Wharf property and 19 acres of land, with 500-foot waterfront; will construct fertilizer factory, including sulphuric acid plant; annual capacity, 60,000 to 70,000 tons fertilizer and daily capacity, 75 tons acid; plans being prepared, and in few days will ask for dredging, wharf construction, building and power-plant proposals; contemplate some steel and some reinforced concrete buildings.

Md., Baltimore—Distillery.—Patapasco Distilling Co. incorporated with \$5000 capital stock by Chas. A. Bier, 903 Covington St.; Peter G. Caspari and Joseph H. Donohue.

Md., Baltimore—Metal Polish.—Flash Manufacturing Co. incorporated by Wellington G. Day, Pratt and Poppleton Sts.; John K. Hogg, John G. Hoffman and J. Robert Hogg.

Md., Baltimore—Mop Wringer.—Brush Mop Wringer Manufacturing Co. incorporated with \$20,000 capital stock by Joseph O. Beazley, 2103 North Charles St.; James R. M. Adams and Edward M. Sills.

Md., Hagerstown—Paper Boxes.—Cumberland Valley Paper Box Co. organized with \$5000 capital stock.

Miss., Gautier—Turpentine.—Lyon Turpentine Co. incorporated with \$10,000 capital stock by J. I. Ford and D. J. Gay.

Miss., Greenwood—Ice Cream.—C. E. Wright has purchased machinery for ice-cream factory recently noted to be established.

Mo., Centralia—Clothing.—Walter Roberts Clothing Co. incorporated with \$10,000 capital stock by C. H. Tucker, John M. Waller and Francis Roberts.

Mo., Clinton—Wagons.—Clinton Wagon Stock Co. incorporated with \$25,000 capital stock by G. W. Cook, Wallace Russell and J. M. Cook.

Mo., Columbia—Clothing.—Victor Barth Clothing Co. incorporated with \$20,000 capital

stock by Nettie Barth, I. V. Barth and Joseph A. Barth.

Mo., Perryville—Marks Wilkinson Manufacturing Co. incorporated with \$3000 capital stock by C. S. Marks, Josie E. Marks, John H. Wilkinson and others.

Mo., Kansas City—D. M. Morris Manufacturing Co. incorporated with \$20,000 capital stock by R. M. Morris, Jesse E. Thompson, Gustav Grading and others.

Mo., St. Louis—Plumbing.—Sanitary Fixture Co. incorporated with \$25,000 capital stock by Allen R. Gilmore, Harry H. Engeling and Laura M. Gilmore.

Mo., St. Louis—Corrugated Paper Boxes, etc.—Mound City Corrugated Paper Box Co. incorporated with \$10,000 capital stock by H. A. Johnson, H. W. Johnson, W. V. Boyne and others.

Mo., St. Louis—Sheet Plaster.—National Sheet Plaster Co. incorporated with \$100,000 capital stock by Edward F. Carter, William F. Kelly and Robert T. Sullivan.

Mo., St. Louis—Distillery.—Jack Daniel Distilling Co. incorporated with \$25,000 capital stock by Lem Motlow, S. W. Fordyce, Jr., and Thomas W. White.

Mo., St. Louis—Chemical.—Silko Chemical Co. incorporated with \$3000 capital stock by Edward K. Brennaun, James S. Coyle, Ferdinand L. Weir and others.

Mo., St. Louis—Chemical.—Carnation Chemical Co. incorporated with \$50,000 capital stock by Harry A. Adams, W. T. S. Barnes and J. M. Barnes.

Mo., St. Louis—Music Leaf Turners, etc.—Peter-Heckel Novelty Manufacturing Co. incorporated with \$25,000 capital stock by Chas. Peter, J. B. Garesche and others.

N. C., Asheville—Sewing Machines.—Asheville Sewing Machine Co. incorporated with \$10,000 capital stock by Edgar B. Shuford, H. M. Wier and W. F. Rogers.

N. C., Asheville—Pianos.—W. T. Hill Piano Co. incorporated with \$100,000 capital stock by W. T. Hill and others.

N. C., Calypso—Packages.—Patten Package Co. incorporated with \$35,000 capital stock by Walter Patten, W. F. Patten and J. R. Maxwell.

N. C., Greenville—Drugs.—John L. Wooten Drug Co. incorporated with \$25,000 capital stock by J. L. Wooten, L. H. Wooten and B. S. Warren.

N. C., Lakewood—Tannic Acid.—C. N. Poore contemplates establishing plant to manufacture tannic acid from chestnut, hemlock and bark; has not determined any details. (See "Machinery Wanted.")

N. C., Winston-Salem—Mirrors, etc.—Standard Mirror Co., Pittsburg, Pa., Frank Wineski, Southern manager, will establish branch plant; has purchased site and will erect one-story building 150x130 feet in size; architect, Willard C. Northup, 208 Masonic Temple, Winston-Salem; plant will produce window glass, polished mirrors, plate glass, etc.

Tenn., Memphis—Drugs.—O. C. Cole Company incorporated with \$12,000 capital stock by O. C. Cole, E. M. Blocker, R. M. Buddeke and others.

Tenn., Bristol—S. S. McCormick and others organized company to establish shirt and overall factory.

Tenn., Blountville.—Head Lipscomb Manufacturing Co. has increased capital stock from \$10,000 to \$30,000.

Tenn., Nashville—Candy.—Huggins Candy Co. (recently reported incorporated with \$10,000 capital stock) will manufacture candy; daily capacity 8000 pounds; Lewis Huggins, president and manager; J. A. Ogilvie, vice-president and treasurer.

Tenn., Nashville—Underwear.—Nashville Shirt Manufacturing Co. will erect \$10,000 addition to plant.

Tenn., Nashville.—Atlas Paint Co. incorporated with \$130,000 capital stock by Harry P. Wood, Franklin L. Quinby and Augustus Wood; will erect factory and office building; brick; steel and corrugated iron; cost \$3000; brick; steel and corrugated iron; cost \$3000; plans and construction by company. (Recently mentioned.)

Tex., Brownwood—Creamery, etc.—Alamo Manufacturing Co. (Charles Low and W. Latham) will install creamery; will also increase manufacture of ice cream.

Tex., Dallas—Hat Frames.—McGee Manufacturing Co. will establish plant at 261 Jackson St. for manufacturing hat frames.

Tex., Dallas—Artificial Fruits, etc.—Luban Manufacturing Co. of New York will establish plant at 258 Commerce St., Dallas, for manufacturing artificial fruits, flowers, etc.

Tex., Fort Worth—Candy.—King Candy Co. has plans by M. L. Waller, Fort Worth, for four-story reinforced concrete building;

50x200 feet; steam heat; cost \$45,000. (Contract recently noted awarded to Buchanan & Gilder, Fort Worth.)

Tex., Greenville—Mattress.—Greenville Mattress Co. incorporated with \$50,000 capital stock by F. M. Raikie, Duke W. Harrison, G. H. Collins and others.

Tex., Houston—Trunks.—Freyer Trunk Manufacturing Co. incorporated with \$35,000 capital stock by L. A. Freyer, Abe W. Freyer and Joseph Westheimer.

Tex., Pilot Point—Creamery.—Mutual Creamery Co. organized with F. A. Wright, president; G. Flake and F. Boerner, vice-presidents; D. J. Mitchell, secretary-treasurer.

Tex., Quanah—Felt.—W. J. Williams contemplates establishment of felt factory.

Va., Buena Vista—Paper.—Columbia Paper Co. awarded contract at \$17,000 to Marshall & Groves, Roanoke, Va., for erection of finishing and office building and repairing adjoining structure; brick and steel truss work; mill construction; slate roof; 32x180 feet; floors partly reinforced concrete; steam heat; plans by H. M. Miller, Roanoke, Va.; E. L. Embree, manager. (Recently mentioned.)

Va., Farmville—Cigars.—Prince Edward Cigar Co. incorporated with \$10,000 capital stock; S. W. Watkins, president; J. D. Watkins, vice-president; L. E. Hubbard, secretary-treasurer.

Va., Fredericksburg—Shirts.—Oppenheim, Obendorf & Co., 112-124 West Fayette St., Baltimore, Md., awarded contract to E. G. Hedlin, Fredericksburg, for erection of shirt factory at Princess Anne and Wolfe Sts.; 40x125 feet; cost \$35,000; machinery purchased. (Recently mentioned.)

Va., Honaker—Brooms.—J. H. Lockhart and W. E. Akers will establish broom factory.

Va., Norfolk—Candy.—Bass-Daughtrey Company incorporated with J. E. Bass, president; George W. Daughtrey, treasurer; Nathan Sternberg, secretary; will establish candy factory at 17 to 21 Commerce St.

Va., Norfolk—Brooms.—F. A. Bunkley will establish broom factory.

Va., Norfolk—Starch.—Greeley Starch & Potato Co., Chas. E. Fox, president, Greeley, Col., has not decided on establishment of plant to manufacture starch from potatoes. (Recently incorrectly noted as of Greeley, O.)

Va., Richmond—Electric Blueprints.—Richmond Electric Blueprints Corporation incorporated with \$5000 capital stock; H. W. Stamper, Jr., president; A. Stanness Kellam, secretary-treasurer; E. J. Heaton, vice-president.

W. Va., Clarksburg—Glass.—Hazel Atlas Glass Co., W. S. Brady, president, recently noted to make extensive improvements, has closed all contracts for machinery; daily capacity of plant, 60 tons glassware per 24 hours.

W. Va., Kearneysville—Evaporating Plant. Hydraulic Cider Co. will install machinery to evaporate apples. (See "Machinery Wanted.")

W. Va., Parkersburg—Shoes.—Graham-Bumgarner Company has purchased site, 105x84 feet, and will erect shoe factory.

RAILWAY SHOPS, TERMINALS, ROUNDHOUSES, ETC.

Md., Baltimore.—Pennsylvania Railroad, Alex. C. Shand, chief engineer, Philadelphia, Pa., purchased property in vicinity of Bayview Junction and will remove to this location roundhouse, car shops and machine shops now at Mt. Vernon yards; planing mill and blacksmith shop will not be changed; roundhouses to be built will accommodate about 75 engines; electric-light plant will be provided to furnish power for operating machinery, including turntables and illumination for buildings at Bayview Junction and terminals in and around Canton; estimated expenditure from \$250,000 to \$300,000.

Tex., Amarillo.—Chicago, Rock Island & Gulf Railway, A. B. Warner, chief engineer, Fort Worth, Texas, will, it is reported, expend about \$300,000 for improvements to terminals, including 12-stall roundhouse, installation of additional machinery and laying of 12 miles of yard track.

Tex., Galveston—Galveston, Houston & Henderson Railroad, H. R. Cooper, chief engineer, will expend \$28,000 to construct 14-stall reinforced concrete roundhouse; will construct machine shop later. (Recently mentioned.)

ROAD AND STREET IMPROVEMENTS

Ala., Dothan.—City will construct 14,000 square yards of pavement; bids to be opened

March 7; Joe Baker, Mayor. (See "Machinery Wanted.")

Ala., Gadsden.—City awarded contract to Charles O. Duncan of Gadsden to pave sidewalks on 7th and 8th Sts. and Haralson Ave.; cost \$10,000.

Ala., Montgomery.—City will pave roadway on Monroe and other streets, pave sidewalks on Maury St., etc., and improve Jeff Davis Ave.; bids to be opened March 7; Robert Tait, City Treasurer. (See "Machinery Wanted.")

Ark., Scott.—Improvement district will be formed to construct 14 miles of road from Galloway to Eagle township. Address Pulaski County Commissioners, Little Rock, Ark.

Ark., Apalachicola.—City Council decided to issue \$20,000 of bonds for street improvements. Address The Mayor.

Fla., Pensacola.—City will construct 635,000 square feet of concrete sidewalks; bids to be opened March 10; T. A. Jennings, chairman Board of Public Works. (See "Machinery Wanted.")

Fla., Tampa.—Hillsboro County Commissioners, E. J. De Vane, chairman, will open bids March 1 for hard surfacing of 31st St. in Gary and four miles of road from Plant City to Polk county line. (See "Machinery Wanted.")

La., Franklin.—St. Mary parish appropriated \$9000 for road work during 1910; work to be done by convict labor, supervised by State Board of Engineers, etc.

La., Harrisonburg.—Police Jury of Catahoula parish will let contract February 14 for 25 miles road improvement recently mentioned; plans drawn; engineer not employed; work will probably be done under superintendence of State Engineer; \$6000 appropriated. Address Secretary Police Jury.

Md., Westminster.—Carroll county will grade and macadamize one mile of Uniontown road between New Windsor and Uniontown; bids to be opened February 14; George W. Brown, president County Commissioners. (See "Machinery Wanted.")

Miss., Shubuta.—City contemplates paving sidewalks in business section. Address The Mayor.

Mo., Grant City.—City will vote on issuance of \$3000 of bonds for construction of cross sidewalks. Address The Mayor.

Mo., Kirksville.—City will construct 6000 square yards brick paving on five inches of concrete base; also 4500 linear feet concrete curb and gutter; bids opened February 7; J. C. Carothers, City Clerk.

N. C., Goldsboro.—Goldsboro township voted \$15,000 bond issue for road construction. Address Wayne County Commissioners.

N. C., Jonesboro.—Jonesboro township of Lee county voted \$15,000 bond issue for road construction. Address County Commissioners, Sanford, N. C.

Okla., Ada.—City awarded contract at \$1.80 per square yard to Shelby-Downard Company, Ardmore, Okla., to pave portions of Main St., Broadway and Townsend Ave. with two-inch natural-rock asphalt wearing surface on five-inch Portland cement concrete foundation; 28,680 square yards paving and 8430 linear feet concrete curb and gutter, etc.; W. B. Jones, City Clerk. (Mentioned in December.)

Okla., Madill.—City voted \$5000 bond issue for street improvement. Address The Mayor.

Okla., Oklahoma City.—Park Commission has retained Charles N. Gould of University of Oklahoma, director Oklahoma Geological Survey, to assist in planning proposed 28-mile road to encircle city and system of parking; estimated cost \$1,000,000.

Okla., Oklahoma City.—City will open bids February 21 for certain street paving; Bob Parman, City Clerk. (See "Machinery, etc. Wanted.")

Okla., Sapulpa.—Creek County Commissioners will construct four cross-county roads at cost of \$5975; one road to be northwest of Sapulpa and three in vicinity of Bristow, Okla.

Okla., Tulsa.—City awarded contract at about \$200,000 for paving nine districts with Texaco asphalt; Peters Bros. Company, at \$180.91, for paving one district with asphalt, and to Potee & Prettyman, at \$133.04, for concrete work in alleys in District 35; contractors of Tulsa; D. C. Fenstermaker, City Engineer. (Recently mentioned.)

Tenn., Athens.—McMinn County Pike Commissioners awarded contract to H. A. Mann, Knoxville, Tenn., to construct 14 miles of road leading out of Athens.

Tenn., Chattanooga.—W. L. Dodds, County Engineer, opened bids February 5 for grading Rossville road from city limits to 17th St. (Previously mentioned.)

Tex., Anahuac.—Road districts Nos. 2 and

2 of Chambers county voted \$50,000 bond issue for road improvements. Address County Commissioners.

Tex., Anson.—City contemplates paving streets; C. C. McCargo, Mayor.

Tex., Dallas.—City will open bids February 11 for paving East Side Ave.; J. B. Winslett, City Secretary. (See "Machinery Wanted.")

Tex., Dallas.—City Commission ordered paving of Patterson, Ross, Carroll and Reiger Aves.; estimated cost, \$100,000; J. M. Preston, City Engineer.

Tex., Dallas.—J. M. Preston, City Engineer, will prepare plans and specifications for resurfacing of Elm St. with creosoted wooden blocks five inches high.

Tex., Waco.—City will pave with brick sections of South 4th, 5th, Washington and Franklin Sts., etc. Address The Mayor.

Va., Bland.—Bland County Board of Supervisors made appropriation for building its portion of Bland road; Pulaski District Road Commission, L. S. Calfee, chairman, Pulaski, Va., will also soon begin improvement of that portion of road in Pulaski county at cost of \$1500; construction by local road force.

Va., Norfolk.—City will open bids February 15 for repaving with some smooth material parts of Granby and Chapel Sts.; W. T. Brooke, City Engineer. (See "Machinery Wanted.")

Va., Pulaski.—Pulaski Road District Commission, L. S. Calfee, chairman, will probably let contracts after March 1 for furnishing of macadamizing materials for construction of about 20 miles road; work to be superintended by State Highway Commission, P. St. J. Wilson, Richmond, Va., chairman; engineer now making survey. (Previous notices include statement of \$70,000 bond issue voted in December.)

SEWER CONSTRUCTION

Ala., Montgomery.—City awarded contract to J. N. Mitchell of Montgomery for construction of 5900 feet sewer on O'Connell and Thurman Sts.; price \$9076.50. (Recently noted awarded to J. Hodgson.)

Ky., Bowling Green.—City contemplates installation of sewerage system; G. E. Townsend, Mayor.

Miss., Ellisville.—City will vote on issuance of \$30,000 sewer bonds. Address The Mayor.

Mo., Kansas City.—James L. Darnell, City Engineer, has prepared complete topographical map of proposed sewer system to drain 60 square miles; lateral sewers are to connect with main trunk sewers; sewage will be conveyed to point at confluence of Blue River with the Missouri; later, if Government prohibits emptying of sewage into Missouri river, acreage around mouth of Blue River is to be utilized for sewage-disposal plant; proposed bond issue of \$300,000 is to be used for construction work, disposal plant, etc.; total estimated cost between \$300,000 and \$400,000; balance to be charged to benefit district; George W. Fuller, engineer, of New York, was employed as consulting engineer in mapping drainage areas, elevations, water sheds, estimates of water-fall, etc.

Mo., Kansas City.—Board of Public Works will probably receive bids about February 15 for construction of joint district sewer in and along Brush Creek Valley; several miles long; diameter 30 to 84 inches; approximate cost \$125,000; complete plans and details now being prepared by James L. Darnell, City Engineer; Robt. W. Goodnow, secretary. (Recently mentioned.)

N. C., Gastonia.—City has engaged Solomon-Norcross Company, Atlanta, Ga., to prepare plans and specifications and make preliminary survey of site for proposed septic tank at sewer outlet on city farm; Summey C. Corawell, engineer, Dallas, N. C., has been employed by company to make survey.

Okl., Altus.—City voted issuance of \$35,000 of bonds for improvements to sewer system. Address The Mayor. (Recently mentioned.)

Okl., Enid.—City will vote on issuance of \$15,000 of bonds for extension of sanitary sewer and \$10,000 for extension of storm sewer; Walter H. McKenzie, Mayor.

Okl., Madill.—City voted \$20,000 bond issue for sewer construction. Address The Mayor.

Okl., Oklahoma City.—City will open bids February 14 for construction of lateral sewer in certain portions of Putnam Heights Addition, Central Park Addition, etc.; Bob Parman, City Clerk. (See "Machinery, etc., Wanted.")

Okl., Sapulpa.—City awarded contract at \$14,718 to Summers & Stone, Oklahoma City, Okla., to construct brick trunk sewer. (Further facts recently mentioned.)

S. C., Florence.—City will open bids March 3 for construction of sanitary sewer system; 19 miles of pipe sewers from 8 to 18 inches diameter, and disposal plant, complete; \$10,000 bond issue lately reported voted; H. S. Jaudon, Box 582, Savannah, Ga., is engineer; H. K. Gilbert, chairman Sewer Commissioners. (See "Machinery Wanted.")

Tenn., Memphis.—City engineering department begun construction of proposed sewer system for northeastern Memphis; estimated cost, \$16,000; Heiskell Weatherford, City Engineer.

Tex., Dallas.—City will vote in April on issuance of bonds for construction of sewage disposal plant; Dan F. Sullivan, Water and Sewer Commissioner; J. M. Preston, City Engineer.

Tex., San Antonio.—City Engineer has completed plans for proposed sewer system to be constructed in Beacon Hill; specifications call for 23,623 feet of six-inch, 3315 feet of 10-inch, 1674 of 12-inch and 670 feet of 15-inch pipe, 49 four-foot manholes, 6 five-foot manholes and 17 flush tanks; bids will be opened February 12. (See "Machinery Wanted.")

TELEPHONE SYSTEMS

Ala., Cuba.—Oxford Rural Telephone Club organized with J. I. Swain, president, and R. N. Wilder, secretary and treasurer, to construct nine-mile telephone system.

Ga., Shellman.—Shellman Telephone Co. incorporated with \$5000 capital stock by T. R. Arthur, C. W. Martin, H. O. Crittenden and others.

Ky., Cunningham.—Cunningham Rural Telephone Exchange incorporated with \$1200 capital stock by W. J. Willingham, Fred Harrison and Mrs. James Peck.

La., Bastrop.—Home Telephone Co., Monroe, La., has received franchise to install exchange at Bastrop.

N. C., Smith.—Farmers' Rural Telephone Co. incorporated with \$6000 capital stock by D. V. Walker, W. G. McLean and others.

N. C., Wilkesboro.—Lewis Fork Telephone Co. organized to construct telephone system from North Wilkesboro to Stony Fork.

S. C., Anderson.—Eureka Telephone Co. organized with Kyle Shirley, president, to construct five-mile telephone system.

Tenn., Woodbury.—Home Telephone Co. organized with Jesse Davenport, president; Walter Hancock, vice-president; will establish telephone system to be connected with Gassaway, Auburn, Smithville and other points in adjoining counties.

Tex., Fort Worth.—Southwestern Telegraph & Telephone Co., main office, Dallas, Tex., will receive bids at office of Sanguinetti & Staats, architects, Fort Worth, until February 10 for erection of three-story-and-base-ment fireproof building; will receive bids on full reinforced concrete construction with face brick on street front; also on reinforced concrete frame and brick exterior walls; separate bids for plumbing, heating and wiring; certified check for \$500, payable to Southwestern Telegraph & Telephone Co., with general contract, and certified check for \$200 with heating and plumbing bid. (See "Machinery Wanted.")

TEXTILE MILLS

Ark., Texarkana.—H. L. B. Shears is interested in plan for organization of company to build cotton mill.

N. C., Durham.—Hosiery.—Durham Hosiery Mills Co. No. 4 incorporated with capital stock of \$139,500 by Julian S. Carr, W. F. Carr and others.

N. C., Flat Rock.—Hosiery, etc.—Skyland Hosiery Co. will expend \$15,000 to rebuild structure (burned in December) for finishing plant; will also double knitting department.

N. C., Robersonville.—Hosiery.—Roberson Hosiery Manufacturing Co. incorporated with capital stock of \$100,000 by J. H. Roberson, A. S. Roberson and others.

N. C., Concord.—Cotton Yarns.—Young-Hartsell Mills Co. will install looms to weave product of its 19,750 ring spindles.

N. C., Ledbetter.—Cotton Yarns.—Ledbetter Manufacturing Co. has no definite plans for enlargement lately mentioned.

N. C., Winston-Salem.—Cotton Yarns.—P. H. Hanes Knitting Co. will increase capital stock by \$250,000 to build mill of 10,000 spindles; will spin yarns for company's hosiery knitting mill.

S. C., McColl.—T. R. Gibson will, it is reported, build cotton mill.

Tex., El Paso.—Josephus Boggs, Room 15 Morgan Bldg., plans organization of \$1,000,000 company to build cotton mill.

WATER-WORKS

Ala., Opelika.—City will vote March 28 on \$85,000 bond issue for city water system and electric-light plant; L. F. Dickson, Mayor.

Ark., McGehee.—T. Q. Woodward, Pine Bluff, Ark. (recently awarded franchise for water-works and electric-light plant costing \$25,000), will install water plant with capacity of 450,000 gallons in 24 hours; E. F. Curran, Box 116, McGehee, represents Mr. Woodward. (See "Electric-light and Power Plants.")

Fla., South Jacksonville.—City invites proposals for water-works franchise; R. V. Rogero, City Clerk. (See "Machinery Wanted.")

Ga., Lafayette.—City Council contemplates construction of water-works; invites correspondence; C. J. Hammond, City Recorder. (See "Machinery Wanted.")

Ky., Millersburg.—City engaged F. O. Siebert of 215 East Main St., Lexington, Ky., to plan construction of water-works.

La., Homer.—City will vote March 15 on issuance of \$10,000 water-works bonds. Address The Mayor.

N. C., Tryon.—Tryon Electric & Water-Works Co. contemplates construction of standpipe or reservoir.

Okl., Altus.—City voted issuance of \$130,000 of bonds for improvements to water-works. Address The Mayor. (Recently mentioned.)

Okl., Enid.—City will vote on issuance of \$25,000 water-works bonds; Walter H. McKenzie, Mayor.

Tex., Anson.—City contemplates construction of water-works; C. C. McCargo, Mayor.

Tex., Waxahachie.—City will expend about \$17,000 in extension to water-works recently mentioned; machinery, piping, etc., purchased; work to be done by city employees; A. Lasswell, Mayor.

W. Va., Ravenswood.—J. Mentor Caldwell, Parkersburg, W. Va., applied for franchise to construct water-works; cost not to exceed \$15,000.

W. Va., Wheeling.—City will open bids February 14 for construction (at water-works pumping station) of pump-house, pumping pit, river intake line and crane runways; Charles C. Schmidt, Mayor. (Lately noted. See "Machinery Wanted.")

WOODWORKING PLANTS

Ark., Herman (not a postoffice).—Barrels.—Mill Shoals Coopers Co., Mill Shoals, Ill., will establish slack barrel stave factory and erect 25 tenant-houses; cost \$35,000.

Ark., Little Rock.—Heading.—Pulaski Coopers Co., main office 1006 Bank of Commerce Bldg., St. Louis, Mo., incorporated with \$20,000 capital stock to manufacture slack barrel heading; daily capacity 3500 sets; P. T. Bols, president; I. T. Hill, vice-president and manager; Chas. Wunderlich, secretary-treasurer.

Ark., Little Rock.—Handles.—Little Rock Handle Co. incorporated by W. W. Dickenson, G. M. D. Cantrell and others.

Ark., Texarkana.—Chairs.—Ralph G. Moore and Joe T. Murphy are arranging to establish chair factory.

Ga., Atlanta.—School and Office Furniture. Howell & Fincher incorporated with \$10,000 capital stock by S. G. Howell, A. M. Fincher and C. W. Underwood.

La., Norwood.—Boxes and Spokes.—O. L. Bennett contemplates establishment of box and spoke factory. (See "Lumber-Manufacturing Plants.")

N. C., Elkin.—Chairs.—Surry Chair Co. incorporated with \$25,000 capital stock by Jos. Baily, Mt. Kisco, N. Y., and others.

N. C., Taylorsville.—Chairs, etc.—C. H. Goodman has purchased and will increase capacity of Ingram Chair Factory; will install machinery for manufacturing sash, blinds and doors.

N. C., Wilmington.—Tea Chests.—Acme Tea Chest Co. awarded contract to C. W. Caldwell, Wilmington, for erection of addition to plant for veneering work; 150x90 feet; cost between \$8000 and \$10,000; machinery purchased; J. B. Brand, local manager, will supervise construction and other improvements.

Okl., Oklahoma City.—Sash, Doors, etc.—The Darling Mill Co. will increase capital stock to \$25,000; is manufacturing department of Oklahoma Sash & Door Co.; makes sash, doors and finish. (Recently incorrectly noted under "Flour, Feed and Meal Mills.")

Okl., Valliant.—Handles, etc.—Valliant Shingle & Handle Co. (recently reported incorporated with \$12,000 capital stock) will establish plant to manufacture handles, shingles and spokes; buildings competed; will install machinery; S. Wright, president; E. Cochran,

secretary; R. E. Hays, treasurer. (See "Machinery Wanted.")

Tenn., Nashville.—Flooring.—Tennessee Oak Flooring Co. has permit to erect building costing \$100,000.

Va., Fredericksburg.—Excelsior.—W. H. Peden awarded contract to E. G. Hefflin, Fredericksburg, for erection of excelsior factory to replace plant recently reported burned; fireproof; 55x60 feet; one story; concrete foundation and floors; brick walls; steel roof.

Va., Honaker.—Coffins.—G. D. Fletcher and T. B. Rice will establish coffin factory.

Va., Altavista.—Boxes, Columns, etc.—Virginia Box & Column Co. (recently reported incorporated with \$25,000 capital stock), H. L. Lane, president, will manufacture box shooks and colonial columns; erect buildings; main building, 125x56 feet; one 32x64 feet; drykiln 20x60 feet; wood and iron construction by company; will install machinery for daily capacity 30,000 box shooks and 200 colonial columns. (See "Machinery Wanted.")

Va., Honaker.—Handles.—L. J. Jackson and R. E. Hawley will erect handle factory; construction begun.

W. Va., Morgantown.—General Woodworking Co. incorporated with \$20,000 capital stock by Charles P. Thorn, Charles C. Robinson, E. Reese Baker and others.

W. Va., Williamstown.—Launches, Skiffs and General Woodworking.—Edward H. Hall and Homer Gable purchased plant of Fred Bailey and will manufacture launches, skiffs, window frames, etc.

BURNED

Ala., Anniston.—Leighton Avenue School, owned by Grace Episcopal Church; loss \$25,000.

Ala., Ashville.—High school; loss \$5000. Address The Mayor.

Ala., Union Springs.—Southern Cotton Oil Co.'s hullhouse; loss \$1500.

D. C., Washington.—College building of Gallaudet College, Edw. M. Gallaudet, president; loss \$20,000.

Fla., Ybor City, Ind. Station Tampa.—L. L. Taylor's department store at 22d St. and Seventh Ave.; loss on building, \$4500.

Fla., St. Augustine.—Three buildings owned by John M. Colla; loss \$9000.

Ga., Buford.—Allen Bona Co.'s harness plant and box factory; loss \$75,000.

Ga., Columbus.—Building occupied by H. Bonfield, owned by R. W. Needham, loss \$20,000; building occupied by David S. Goldberg, owned by T. J. Pearce, loss \$10,000.

Ky., Lexington.—Lexington & Interurban Railway Co.'s car barn; estimated loss, \$80,000.

Ky., Lexington.—J. P. Taylor Company's drying plant on South Limestone St.; loss \$10,000.

Ky., Sharpsburg.—Wallace Sharp's residence; loss \$6000.

La., Haynesville.—Plant of Haynesville Independent; Masonic Lodge hall; loss \$3000.

La., Morgan City.—Gulf Refining Co.'s office building and warehouse; both owned by Maneul Coguchelm, New Orleans, La.

Md., Pikesville.—Charles W. Bald's residence; loss \$10,000.

Md., Preston.—Dwelling owned by Mrs. Joanna McShane, Denton, Md., and occupied by R. P. Vickers; loss \$2500.

N. C., Charlotte.—Yarbrough & Bellinger Co.'s foundry department; loss \$10,000.

N. C., Wilmington.—Chadbourne Sash, Door & Lumber Co.'s plant; loss \$50,000.

S. C., Columbia.—Mrs. H. Stork's pottery; loss \$1500.

Tenn., Adams.—Adams Planing Mill Co.'s plant; loss \$7000.

Tenn., Memphis.—B. Lowenstein Bros.' pants factory, Washington Ave. and Front St., loss \$20,000; John Morrell Packing Co.'s plant and Schwarzhild & Sulzberger Packing Co.'s plant damaged.

Tenn., Burns.—T. M. Oliphant's store and residence; loss \$4000.

Tex., Bonham.—School building and dormitory of Carlton College; loss \$12,000.

Tex., Groesbeck.—Public school building. Address The Mayor.

Tex., Houston.—Two buildings, 705-07 Travis St., owned by Adam Clay estate and occupied by L. H. Burke & Son and Harvey Furniture Co.; building occupied by E. A. Hudson Furniture Co.; total loss, \$35,000.

Tex., Mart.—High school; loss \$14,000. Address The Mayor.

Tex., Mart.—Public school; loss \$25,000. Address The Mayor.

Tex., Whitesboro.—J. M. Buchanan's barn; loss \$6000.

Va., Burkeville.—T. G. Wood's hotel; loss \$30,000.

BUILDING NOTES

APARTMENT-HOUSES

Ark., Helena.—Joseph L. Solomon promoted organization of company to erect apartment-house; 18 apartments; cost \$25,000; C. C. Moore, E. C. Hornor and S. Straub are building committee.

D. C., Washington.—Nich. R. Grimm, 627 F St. N. W., is preparing plans for apartment-house on Otis Ave.; three stories; brick; cost \$20,000.

D. C., Washington.—Bids are invited for erection of proposed apartment-houses for Thomas J. Kemp, 433 G St. N. W.; plans on file in office of Matthew G. Lepley, 467 H St. N. W.

D. C., Washington.—Albert Goerner, architect, 35 B St. N. W., has plans for addition to Roland apartment-house at 2d St. and Maryland Ave. N. E.; four stories; brick; stone trimmings.

D. C., Washington.—Annie Quickstein has plans by Cloughton West, 1808 Kalorama Rd. N. W., Washington, for apartment and store building at 22d and P Sts.; three stories; brick and stone; cost \$10,000.

Ga., Atlanta.—Dr. Horace Grant purchased site 81x140 feet on which to erect six-story apartment-house costing about \$25,000.

Ky., Louisville.—Albert M. Dick will erect apartment-house; cost \$40,000.

Ky., Louisville.—Albert M. Dick secured permit for erection of apartment-house; three stories; pressed brick; stone facings; six apartments of six rooms each and three of five rooms each; cost \$40,000; plans by J. J. Gaffney of Louisville.

Md., Baltimore.—George R. Morris, 46 Gunther Bldg., purchased site 75x100 feet and will erect apartment-house; 28 apartments; cost \$75,000; semi-fireproof construction; low-pressure steam heat; electric lighting; plans and erection by Geo. R. Morris.

Mo., St. Louis.—Albert B. Finch purchased site with frontage of 550 feet on which to erect 20 single apartment-houses with bath; cost \$80,000.

Mo., St. Louis.—Joseph Nementz will erect two-story apartment-house to cost \$10,000.

Okla., Tulsa.—A. J. Stone awarded contract to John H. Duke, Tulsa, for erection of apartment-house recently mentioned; 45x60-foot building; ordinary construction; cost \$8000; plans by Hugenin & Swearingen, Tulsa. Mr. Stone also contemplates erection of larger apartment-house next summer.

S. C., Spartanburg.—A. M. Alexander will remodel dwelling into apartment-house; 25 rooms; brick and wood construction; electric lighting; cost \$20,000; plans by L. D. Proffit, Glenn Bldg., Spartanburg; contractor, Chapman Foreman, Spartanburg.

Tenn., Memphis.—Mrs. E. R. Head will erect apartment-house; two stories; brick; concrete foundation; gravel roof; \$1200 heating plant; cost \$14,000; contract awarded to Hulbert Bros. of Memphis.

Tenn., Memphis.—Madison Heights Flat Co. will erect apartment-house; three stories; brick; terra-cotta trimmings; concrete foundation; 72 rooms; \$1500 heating plant; contractor, W. C. Downing of Memphis.

Tenn., Memphis.—William E. Gerber has plans by Harker & Cairns of Memphis for apartment-house; three stories and basement; 66x150 feet; 40 rooms; private baths; cost \$40,000.

Va., Portsmouth.—Mrs. Jefferson Cunningham, Richmond, Va., awarded contract at \$6270 to S. B. Hutchins of Portsmouth to erect apartment-house; two stories; brick; metal and slate roof.

Va., Portsmouth.—O. L. Williams will erect apartment-house; three stories; composition roof; mill construction; electric and gas lighting; cost \$4000; construction by owner.

W. Va., Martinsburg.—George M. Bowers, Commissioner Bureau of Fisheries, The Marlborough, Washington, D. C., and Stuart W. Walker of Martinsburg purchased site on which to erect apartment-house; steel and brick; six stories; 50x120 feet; fireproof; estimated cost, \$75,000.

BANK AND OFFICE BUILDINGS

Ala., Florence.—First National Bank purchased site with frontage of 44 feet for \$9000 on which to erect bank building.

Ark., Little Rock.—Concatenated Order of Hoo Hoo in Arkansas, J. C. McGrath, chairman of committee, has not selected architect to prepare plans for office and lodge building recently mentioned; 50x150 feet; fireproof

construction; heating and lighting not determined; cost \$100,000.

Ark., Fort Worth.—Union Trust & Realty Co., M. C. Burke, president, contemplates remodeling building.

D. C., Washington.—Southern Building Corporation, J. L. Karris, president, has about awarded contract to Thompson-Starrett Company, 51 Wall St., New York, for erection of proposed office building at 15th and H Sts. N. W.; nine stories and basement; fireproof; skeleton frame; front of glazed brick and terra-cotta; reinforced concrete floor arches and hollow-tile partitions and furring; four elevators; plumbing; heating; electric lighting; estimated cost, \$900,000; architects, D. H. Burnham & Co., 1417 Railway Exchange Bldg., Chicago, Ill.

D. C., Washington.—District National Bank awarded contract to William P. Lipscomb & Co., 1405 F St. N. W., Washington, for erection of bank building at 1406 G St. N. W.; 38x75 feet; fireproof; eight stories; front, including arch, to be either marble, granite or limestone; ornamentation of remainder either stone or terra-cotta; entire first floor for banking purposes; mosaic flooring; bank fixtures of marble, bronze and mahogany; public lobby, 13x40 feet; safe-deposit vaults, 34x12 feet, to be in basement; each of seven floors above bank will have 12 office rooms; steam heat; electric lighting; electric elevators; telephones; electric bells; cost about \$100,000; plans by Milburn, Helster & Co., Home Life Bldg., Washington. (Recently mentioned.)

Ga., Chickamauga.—Bank of Chickamauga awarded contract to Adams & Schneider, Chattanooga, Tenn., for erection of \$2600 bank building recently noted; plans by S. A. Alverson, Chattanooga.

Ga., Hawkinsville.—Hawkinsville Bank & Trust Co., E. J. Henry, president, will erect one-story bank building; about 30x55 feet; plans not secured.

Ga., Rome.—Mrs. John M. Graham and J. B. Sullivan, Jr., purchased site 30x66 feet on which to erect office and store building.

Md., Baltimore.—Southern Electric Co. leased for five years five-story building at Light and German Sts. to be used as addition to structure now occupied by company at 16 Light St.; will expend about \$10,000 in improvements, including remodeling interior and placing fireproof doors on first, second and third floors, connecting two buildings; first floor to be used as store, basement and second floor as warehouse and fourth and fifth floors rented to General Electric Co.

Md., Baltimore.—Baltimore County Water Co., Frederick W. Feldner, president, 411 East Baltimore St., will expend about \$30,000 in erection of office building recently mentioned; two stories and basement; brick; granite trimmings; site, 36x70 feet, at corner of Crooked La., in rear of Charles and Fayette Sts.

Miss., Meridian.—Citizens' National Bank purchased site on which to erect six-story bank and office building to cost \$70,000; size 65x75 feet; ordinary construction; passenger elevator; plans not made; date of opening bids not set. Address M. W. Wagner.

Mo., St. Louis.—Mercantile Trust Co. will erect office building and theater. (See "Theaters.")

Mo., St. Louis.—J. Scudder, 319 North 4th St., will erect office and store building; two stories; 25x60 feet; brick and stone; gas and electric fixtures; cost \$70,000; architect, J. M. Dunham; contractor, M. Eysell, both in Odd Fellows' Bldg., St. Louis.

Mo., St. Louis.—Kellerman Contracting Co., 510 Pine St., has plans by Widman & Walsh, St. Louis, for six-story office and storage building; cost \$310,000; construction begun. (See "Warehouses.")

Okla., Sapulpa.—Robert Nickolas, Kirksville, Mo., will erect office building; frontage 100 feet.

Tenn., Chattanooga.—First National Bank, Chas. A. Lyerly, president, 803 Broad St., is receiving proposals through Chas. E. Bearden, Chamberlain Bldg., Chattanooga, for erection of proposed addition to bank building; 10 feet wide and length of bank; electric and gas lighting; electric elevator; cost \$30,000.

Tenn., Memphis.—W. C. Downing will erect for J. A. Williams office and store building; two stories; brick; eight rooms; cost \$5000.

Tex., Barkburnett.—First State Bank will erect 25x40-foot bank building; cost \$3000; address F. M. Schilling. (See "Machinery Wanted.")

Tex., Houston.—Southern Pacific Railway, A. V. Kellogg, engineer maintenance of way, Houston, has plans by Jarvis Hunt, Chicago, Ill., for 12-story office building; 80,000 square feet floor space. (Recently mentioned.)

Tex., Lewisville.—Lewisville State Bank (J. W. Degan and others) will open bids within next 60 days for erection of \$3000 bank building; ordinary construction; size about 33x80 feet. (See "Machinery Wanted.")

Tex., McAllen.—First National Bank (D. B. Chapin, Chapin, Tex., and others) will erect one-story brick bank building.

Tex., Quanah.—L. Simpson will erect three-story brick and office building.

Tex., Palacios.—C. F. Emmons will erect office and store building; two stories; brick.

Tex., Ponder.—Ponder State Bank has plans prepared by and awarded contract to Ed. Brown for erection of proposed brick building; size 25x50 feet; cost \$3000.

Tex., Tyler.—Armour Packing Co. (main offices, Chicago, Ill.) awarded contract for erection of building; pressed brick; 50x100 feet; two stories and basement.

W. Va., Wheeling.—Charles Copp, B. W. Peterson, Hal Epeidel and others will remodel old postoffice for office purposes; estimated cost \$10,000; plans by Fred Farris of Wheeling.

CHURCHES

Ala., Oxford.—Baptist congregation awarded contract at \$5364 to F. M. Ciekler & Bros. and A. O. Humphries of Anniston to erect brick edifice.

D. C., Washington.—Union M. E. Church, 20th St. between H St. and Pennsylvania Ave. N. W., has plans by William J. Palmer, Warder Bldg., Washington, for addition to edifice; one-story; brick and stone; cost \$15,000.

D. C., Washington.—Metropolitan Baptist Church instructed Appleton P. Clark, Jr., 605 F St. N. W., to proceed with final plans for proposed edifice at 6th and A Sts. N. W.

Ga., Athens.—Emanuel Episcopal Church has plans by C. M. Strahan, Athens, for proposed Sunday-school, etc., building; estimated cost \$5000.

Ga., Atlanta.—Church of Christ purchased site on which to erect \$100,000 edifice. Address The Reader, Church of Christ, Scientist.

La., Shreveport.—Christian congregation will erect edifice. Address The Pastor, Christian Church.

La., Independence.—Catholic Church has plans by Wm. Smalley, Independence, for proposed edifice; 87x39 feet; cost, \$4500. (See "Machinery Wanted.")

Md., Baltimore.—Otterbein Memorial United Church, C. C. Goben, pastor, will expend \$12,000 to erect addition to edifice recently mentioned; ordinary construction; steam heat; electric lighting; plans by M. R. Rhodes, Chambersburg, Pa.; will let contract early in spring.

Md., Frederick.—Methodist Episcopal Church will remodel church building and erect Sunday-school building; expenditure \$18,000; James H. Harris, chairman building committee.

Mo., Kansas City.—First Church of Christ, Scientist, James N. Russell, reader, is having plans prepared by Edwards & Sunderland of Kansas City for fireproof edifice to replace structure recently reported burned; estimated cost \$75,000.

Mo., St. Louis.—Ethical Society purchased site with frontage of 50 feet on which to erect edifice costing \$25,000.

N. C., Edneyville.—St. Paul's Episcopal Church awarded contract to C. E. Penner, Hendersonville, N. C., to erect edifice costing about \$3000; plans by Smith & Carrier, Asheville, N. C.

Okla., Frederick.—Methodist Church South has plans by Smith & Parr, McAlester, Okla., for edifice; 66x34 feet; ordinary construction; steam heat; electric lighting; cost \$13,211. (Contract recently noted awarded to W. S. Collins, Frederick, Okla.)

S. C., Anderson.—St. John's Methodist congregation will erect edifice. Address The Pastor, St. John's Methodist Church.

S. C., Clearwater.—Seminole Manufacturing Co. will erect church building.

S. C., Johnston.—Baptist Church has plans by J. H. Casey, Anderson, S. C., for edifice recently noted; 100x100 feet; brick; heating undetermined; acetylene lighting; cost about \$15,000; will open bids about March 1. Address M. L. Lawson.

S. C., Spartanburg.—South Side Baptist Church will award contract about March 1 for erection of edifice recently noted; 100x100 feet; brick veneer; steam heat; electric lighting; cost \$15,000; plans by Wheeler & Stern, Charlotte, N. C.; address architects.

S. C., Spartanburg.—Bethel Methodist Church contemplates erecting edifice to cost \$3500. Rev. J. W. Shell is city mission pastor of Methodist Church.

Tenn., Chattanooga.—Third Presbyterian

Church, Rev. James Hardin Smith, pastor, will erect edifice.

Tex., Angleton.—Methodist Church awarded contract at \$9500 to Smith & Wenz, Temple, Tex., to erect concrete-block edifice.

Tex., Canadian.—Central Christian Church, J. H. McWhirter, minister, had plans prepared by and awarded contract to H. H. Stickley, Canadian, for erection of \$10,000 edifice recently mentioned; fireproof structure; 64x44 feet; heating; electric lighting; all contracts let.

Tex., Center Point.—Methodist Episcopal Church South has plans by A. B. Vlach & Co. for edifice recently noted; 60x100 feet; fireproof construction; concrete blocks; stoves; lighting not decided; cost \$10,000. (See "Machinery Wanted.")

Tex., Quanah.—Catholic congregation secured site on which to erect edifice. Address The Pastor, Catholic Church.

COURTHOUSES

Mo., Springfield.—Greene County Commissioners will soon invite bids for erection of courthouse.

N. C., Bryson City.—Swain County Commissioners will rebuild courthouse recently reported damaged; by day's labor. (See "Machinery Wanted.")

Okla., Nowata.—Nowata county will vote February 21 on \$75,000 bond issue for erection of courthouse building, with jail in basement; fireproof structure; 92x72 feet; plans by S. K. Cardon, Muskogee, Okla.; contract to be let after bonds are voted and sold; E. Elliott, County Clerk.

Tenn., Dyersburg.—Dyer county is proceeding with arrangements for building courthouse noted in December; committee, of which Geo. S. Weakly is chairman and Jas. H. Jones secretary, will receive competitive plans, specifications and bids until February 21 for erection of fireproof structure with four entrances; steam heat; electric lighting; cost not to exceed \$60,000; rights reserved.

DWELLINGS

Ala., Birmingham.—C. W. Strelt will erect five dwellings; two stories; frame; cost \$7500.

Ala., Birmingham.—Fidelity Mortgage & Trust Co. will erect two-story dwelling; frame; cost \$5000.

Ark., Little Rock.—B. C. Bain will expend \$12,500 to erect dwelling and barn; two stories; 47x70 feet; frame; brick veneer; hot-water heat; electric and gas lighting; plans by J. M. Whitehead, 902 Southern Trust Co., Little Rock. (Contract recently noted awarded to S. R. Byarlay, Little Rock.)

Ark., Lonoke.—Building committee of First Baptist Church awarded contract to M. E. Dickson, Lonoke, for erection of parsonage.

D. C., Washington.—Wm. K. Hill, Takoma Park, will erect four dwellings at Butternut and 6th Sts. N. E.; two stories; frame; cost \$12,000; owner contractor.

D. C., Washington.—J. Edward Chapman has plans by N. T. Haller Company, Corcoran Bldg., Washington, for erection of dwelling at 1824 15th St. N. W.; three stories; brick; cost \$5000.

D. C., Washington.—Alonzo H. Bliss Company, 35 B St. N. W., will erect residence; three stories; brick; cost \$10,000.

D. C., Washington.—Virginius Dabney, The Farragut, will erect dwelling on Connecticut Ave.; bids for construction are being received by Wood, Donn & Deming, architects, 808 17th St. N. W., Washington; cost \$8000.

Fla., St. Petersburg.—J. H. Rowe will erect residence.

Ga., Athens.—University of Georgia will erect dwelling for Prof. Charles M. Snelling, dean.

Ga., Milledgeville.—State Prison Commission has engaged G. R. Jones, Cedartown, Ga., to devise and superintend construction of residence for warden of female department. (See "Government and State Buildings.")

La., New Orleans.—Charles W. Hopkins, 412 Hennen Bldg., has plans by Keenan & Weis, 413 Hibernian Bldg., New Orleans, for proposed dwelling; seven rooms; rustic California style architecture; shingle and field stones; cost \$5000; construction by owner.

La., New Orleans.—Joseph Lee Rhodes, 412 Hennen Bldg., New Orleans, has plans by Keenan & Weis, 413 Hibernian Bldg., New Orleans, for proposed two-story dwelling; seven rooms; ordinary mill construction; cost \$6500; construction by owner.

La., New Orleans.—W. W. Reid will erect residence in Richmond Park.

La., New Orleans.—C. P. Ellis, Jr., has purchased site at \$7000 and will erect dwelling in Richmond Park.

La., New Orleans.—S. J. White will erect dwelling in Richmond Park.

La., New Orleans.—Paul Capdeville has purchased site for \$9000 and will erect residence.

Md., Baltimore.—Cedarcroft Land Co., 875 American Bldg., is having plans prepared for cottages at Cedarcroft, to cost \$30,000.

Md., Baltimore.—Ramey Bros., 225-231 Law Bldg., will erect dwellings on Rayner Ave.; two stories; brick; about 13x14 feet; furnaces; gas lighting; cost \$16,000; plans by Jacob F. Gerwig, 11 East Lexington St.; will open bids March 1 for building material; construction by owner.

Md., Baltimore.—Builders' Mortgage Security Association purchased site from Walbrook Land Corporation, Calvert Bldg., at Brighton and 10th Sts., Walbrook, and will erect 29 dwellings; porch fronts; pressed-brick fronts; hardwood interior finishings; two stories.

Md., Baltimore.—William Olwine, 950 Hampden Ave., purchased site on Prestman St. and will erect number of two-story dwellings.

Md., Baltimore.—Mary E. Nagengast awarded contract to Julius Wehr, Baltimore, for erection of residence on Mayfield Ave.; two and a half stories; 35x40 feet; asbestos roofing; vapor heat; cost \$7500; plans by Callis & Callis, 2000 St. Paul St., Baltimore.

Md., Baltimore.—Park Land Corporation, Garrison Ave., opposite Kelo Home, has plans by Frank H. Callaway, Forest and Callaway Aves., Baltimore, for dwelling on Springdale Ave.; two and a half stories; frame; 30x30 feet; slate roof; steam heat; cost \$3000.

Md., Baltimore.—Highland Land Co., 763 Calvert Bldg., has awarded contract at about \$20,000 to Boyd & Huff, 941 North Bond St., Baltimore, for erection of four cottages on Bateman Ave., near 11th St.; 2½ stories; frame; 26x39 feet; slate roof; hot-water heating; plans by Herbert C. Aiken, 223 St. Paul St., Baltimore.

Md., Chestertown.—William W. Hubbard, vice-president of Hubbard Fertilizer Co., 802-803-804 Keyser Bldg., Baltimore, Md., is having plans prepared for colonial residence on Front St.; will have Italian garden, with cement walks and remodel residence; cost of improvements \$40,000.

Md., Chevy Chase.—Ashby Leavelle, 3020½ R St. N. W., Washington, D. C., will erect \$7000 dwelling at Chevy Chase.

Md., Glencoe.—Wm. H. Graftin has awarded contract to Walter E. Burnham, 2 Builders' Exchange Bldg., Baltimore, Md., for improvements and addition to dwelling; will install electric plant; estimated cost \$10,000; plans by Wilson L. Smith, 800 Law Bldg., Baltimore, Md.

Md., Luthicum's Heights (not a postoffice). Renle Tower has plans by Herbert C. Aiken, 223 St. Paul St., Baltimore, Md., for erection of cottage; 1½ stories; frame; slate roof; steam heat; cost \$3200.

Mo., Kansas City.—William McLaughlin is preparing plans for erection of dwelling.

Mo., Kansas City.—Otho C. Snider has purchased site of 1½ acres and will erect residence.

Mo., Kansas City.—Gilbert Morton will erect colonial brick residence.

Mo., Kansas City.—Harbert G. Tureman will erect dwelling on Oak St.; cost, \$20,000.

Mo., St. Louis.—C. Degenhardt will erect six one-story dwellings; cost \$10,000.

Mo., St. Louis.—Samato Realty Co., 3741 Maffitt Ave., awarded contract to M. L. Baucumb, Hollywood, St. Louis, for erection of two dwellings recently mentioned; 35x37 feet; ordinary construction; hot-water heat; cost \$6500 each; plans by A. Blair Ridington, St. Louis.

N. C., Charlotte.—T. B. Powers has not let contract for erection of eight-room dwelling; frame; electric lighting; cost, \$4000; plans by Louis Asbury, Charlotte.

N. C., Charlotte.—W. W. Graham has plans by W. J. Stinson, Charlotte, for erection of dwelling on Elizabeth Heights; cost \$5000.

N. C., Charlotte.—Robert L. Tate will erect residence.

N. C., Charlotte.—J. W. Zimmerman will erect double dwelling.

N. C., Charlotte.—E. L. Keesler is having plans prepared for erection of dwelling.

N. C., Charlotte.—C. J. Stimson will erect residence.

N. C., Charlotte.—McClung Realty Co. awarded contract to R. M. Usher, Charlotte, for erection of four bungalows.

N. C., Charlotte.—S. W. Dandridge will erect dwelling.

N. C., Greensboro.—I. F. Peebles has plans

by G. Will Armfield, Greensboro, for erection of residence.

N. C., Charlotte.—W. D. Rock has plans by Hunter & Gordon, Charlotte, for erection of dwelling; cost \$5000.

N. C., Charlotte.—George H. Bellinger will erect dwelling; 75x155 feet; 11 rooms; frame; hot-water heat; gas and electric lighting; cost \$5000; plans indefinite.

N. C., Lumberton.—A. E. White will erect residence; plans by Hook & Rogers, 609 Trust Bldg., Charlotte, N. C.

Okl., Oklahoma City.—D. M. Hogan, 911 West 19th St., has plans by Layton, Smith & Hawk, Oklahoma City, for dwelling recently noted; 57x58 feet; 2½ stories; ordinary construction; hot-water heat; cost \$25,000; will open bids in about 30 days.

Okl., Tulsa.—John F. Black will erect residence; two stories; cost \$5000.

S. C., Spartanburg.—Floyd L. Liles will erect residence.

Tenn., Fountain City.—T. J. Wyrick has plans by M. E. Parmelee & Son, Knoxville, for dwelling recently mentioned; two stories; mill construction; cement and shingles; hot-air heat; electric lighting; cost \$3000; will let contract about February 15.

Tenn., Memphis.—T. J. Douglas has plans by Willard Broghe, Memphis, for dwelling; 30x32 feet; frame and plaster; hot-air heat; electric lighting; cost \$3500. (Contract recently noted awarded to Chas. Ellington, Memphis.)

Tenn., Memphis.—J. S. Cain has awarded contract to F. C. Story, Memphis, for erection of residence at 1523 Goodbar Ave.; two stories; stone; will install heating plant; cost \$4000.

Tenn., Memphis.—R. B. Logan's dwelling (contract recently noted awarded to J. H. Hughes, Memphis) will be two stories; frame; brick veneer; slate roof; hot-water heat; electric lighting; cost \$7500; plans by Taylor & Taylor, Ontario, Canada.

Tenn., Memphis.—J. L. Dunlap will erect residence for M. R. Dunlap; nine rooms; two stories; frame; cost, exclusive of heating, wiring and plumbing, \$4200.

Tex., Houston.—R. T. Pruitt will erect ten dwellings; two stories; frame; cost \$3000 each.

Tex., Waco.—W. W. Cameron will award contract in about 60 days for erection of dwelling recently mentioned; 45x75 feet; brick and stone; cost within \$25,000.

Va., Luray.—Herbert F. Lucas has plans by Geo. F. Barber & Co., Knoxville, Tenn., for dwelling recently mentioned; 33x34 feet; hot-water heat; electric lighting; cost \$3500; construction by owner.

Va., Portsmouth.—Mrs. Judson Cunningham, Richmond, Va., will erect three tenement buildings; two stories; brick; metal and slate roofs; cost \$6272.

GOVERNMENT AND STATE BUILDINGS

D. C., Washington.—Embassy Building.—Court Johann-Helrich von Bernstorff, German Ambassador, 1435 Massachusetts Ave., invites plans for German embassy building to be erected on S St. N. W.; competing architects will include Carrere & Hastings, 225 Fifth Ave., New York City.

Ga., Milledgeville.—Hospital, etc.—State Prison Commission, G. R. Hutchens, chairman, will erect tuberculosis hospital, residence and office building at State Prison Farm. G. R. Jones, contractor, Cedarstown, will supervise construction by convict labor.

Ga., Rome.—Postoffice.—Bids will be received at office of James Knox Taylor, Supervising Architect, Treasury Department, Washington, D. C., until March 18 for extension, remodeling, etc. (including plumbing, gaspiping, heating apparatus, electric conduits and wiring) of U. S. postoffice at Rome in accordance with drawings and specification, copies of which may be had from custodian at Rome or at above office, at discretion of architect.

La., New Orleans.—Hospital.—Charity Hospital has plans by Paul Henkel, Audobon Bldg., New Orleans, for one-story addition recently mentioned; 90x16 feet; brick and concrete; cost \$4000; will open bids February 28; address Dr. E. S. Lewis, Vice-President Board of Administrators, care of L. P. Delahoussaye, secretary.

Mo., Jefferson.—Capitol.—State will vote this year on proposition to erect capitol building previously noted; cost not to exceed \$5,000,000. Address The Governor.

N. C., Raleigh.—Fair Building.—Joseph E. Pogue, secretary North Carolina State Fair, secured plans and specifications for building 200x60 feet at fair grounds; to be especially

adapted for exhibits of agricultural and horticultural products.

Va., Richmond.—Postoffice, etc.—Bids will be received at office of James Knox Taylor, supervising architect, Treasury Department, Washington, D. C., until March 17 for construction of United States postoffice, court-house and custom-house in accordance with plans and specifications, copies of which may be obtained from custodian at Richmond, or at above office at discretion of architect.

HOTELS

Ala., Shelby Springs.—W. J. Lloyd, Cosmos Club, Washington, D. C., has not completed definite plans for hotel recently noted under Columbiana.

Ark., Ashdown.—J. M. Johnson will open bids May 1 for erection of hotel recently mentioned; plans not yet prepared; three-story-and-basement structure; 70x100 feet; hot-water heat; electric lighting; cost, complete, within \$25,000.

Ga., Reynolds.—W. M. Musselwhite is interested in erection of two-story 80x150-foot hotel. (See "Machinery Wanted.")

Ky., Lexington.—Milton Young will erect hotel; six stories; 150 rooms; cost \$300,000.

Ky., Louisville.—H. A. Hix, manager Willard Hotel, has begun proposed improvements, including 25 additional baths, enlargement of dining-room so as to increase capacity from 140 to 170, etc.; expenditure, \$10,000.

Mo., St. Louis.—Southern Realty & Financial Co. will erect addition to American Hotel at 7th and Market Sts.; annex to be 10 stories; 200 rooms; fireproof; cost about \$500,000.

N. C., Albemarle.—Albemarle Development Co., J. C. Masters, secretary-treasurer, awarded contract to L. A. Moody of Albemarle for erection of hotel. (See "Miscellaneous Structures.")

N. C., Hertford.—Insurance, Realty & Trust Co., M. H. White and L. W. Norman organized company and had plans prepared for hotel, to cost \$20,000.

S. C., McCormick.—W. J. Connor awarded contract to R. M. Broome, Augusta, for rebuilding burned hotel recently noted; 20 rooms; ordinary construction; brick; metal roof; cost within \$8000; plans by owner; construction begun.

Tenn., Nashville.—Tulane Hotel reported to be remodeled at cost of \$150,000 to \$200,000.

Tex., Brownwood.—Bids will be received at the Bank of Brooks Smith until February 24 for construction of four-story brick hotel building; also receive estimates for heating, plumbing, wiring, electric elevators and a private telephone system; certified check, \$500, to accompany each bid on general contract; plans and specifications on file at office of architects, Waller, Shaw & Fields, Fort Worth, Tex.

Tex., Fort Worth.—A. August will erect hotel; 150x200 feet; reinforced concrete and brick; three stories.

Tex., Munday.—Company is being organized to rebuild St. George Hotel, recently reported burned.

Tex., Quanah.—William Cameron Co. will, it is reported, erect five-story hotel.

Tex., Taft.—Coleman-Fulton Pasture Co., Charles P. Taft, Cincinnati, O., president, plans further development of La Catarina ranch; improvements will include \$10,000 hotel, station, etc.; John M. Green of Gregory, Tex., is manager; Edward A. Green, architect, in charge of buildings.

Va., Abingdon.—L. P. Summers has plans and specifications for hotel; pressed brick; cost \$20,000.

Va., Lynchburg.—Travelers' Hotel Co., incorporated with \$50,000 capital stock to erect fireproof hotel costing about \$150,000; H. F. Lambert, president; A. C. Hancock, vice-president; G. W. Hancock, secretary-treasurer.

Va., Monterey.—H. P. Patterson, proprietor of Hotel Commercial, will erect 30-room hotel to cost \$7000.

Va., Pocahontas.—A. Goodman Company has contracted for erection of five-story hotel, which has been leased by A. L. Aaron.

W. Va., Kingwood.—Glade Lumber Co., J. E. Stitzinger, manager, Woodbine, W. Va., will build hotel.

MISCELLANEOUS STRUCTURES

Ala., Huntsville.—Y. M. C. A.—Young Men's Christian Association contemplates awarding contract in March for erection of \$30,000 building recently noted; brick structure; about 60x120 feet; hot water or steam heat; combination lighting; architect not selected.

Ark., Heber.—Store.—T. E. Olmstead &

Sons awarded contract to Charles Bally, Heber, for erection of building recently noted; 24x60 feet; one story; fireproof construction; electric lighting; cost \$1700. (See "Machinery Wanted.")

Ark., Little Rock.—Lodge.—Concatenated Order of Hoo Hoo in Arkansas, J. C. McGrath, chairman of committee, will erect \$100,000 building to contain lodge hall and offices. (See "Bank and Office Buildings.")

D. C., Washington.—Store.—B. Stanley Simmons, 331 F St. N. W., is preparing plans for erection of store at 11th and H Sts. N. W.; four stories; brick; cost \$20,000.

D. C., Washington.—Store.—A. Lisner, 11th and G Sts. N. W., is having plans prepared for improvements to Palais Royal.

D. C., Washington.—Hall.—Men's Club of Church of Epiphany, G St., between 13th and 14th Sts. N. W., Rev. Randolph H. McKim, rector, will erect \$50,000 parish hall.

D. C., Washington.—Hospital.—Episcopal Eye, Ear & Throat Hospital, 1147 15th St. N. W., Henry P. Blair, chairman of building committee, has plans by Hill & Kendall, Corcoran Bldg., Washington, for erection of addition to hospital.

D. C., Washington.—Masonic Lodge.—Supreme Council of Masons for Southern District will erect home on 16th St., between L and M Sts. N. W.; 13x15 feet; three stories and basement; marble; will install printing plant and heating apparatus; cost \$1,000,000; plans to be submitted not later than February 10.

D. C., Washington.—Business.—E. Heldenheimer, 1236 Pennsylvania Ave., has plans by B. Stanley Simmons, 331 F St. N. W., for business building recently mentioned; four stories. Address Mr. Simmons.

Fla., Pensacola.—Stores.—Bullock & Caldwell and associates purchased Mallory home-stand for \$50,000 and will erect row of store buildings.

Fla., Pensacola.—Stores.—Baars & Dunwoody have purchased site for \$75,000 and will erect store building.

Fla., Plant City.—Business.—H. B. Wordehoff has awarded contract to R. E. Fletcher for erection of two-story business building.

Ga., Atlanta.—Stores.—Adair & McCarty awarded contract to J. R. Carr & Co., Atlanta, for erection of three-story brick building (recently noted); 50x150 feet; first floor, stores; second floor, offices; fireproof construction; vapor system of heat; electric lighting; probably electric elevator; cost, \$35,000; plans by P. Thornton Marye, Atlanta.

Ga., Dublin.—Store.—D. W. Burch will erect two-story brick building to be occupied by "Four Seasons" Department Store.

Ga., Lexington.—Store.—R. E. Maxwell will erect brick store building.

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Md., Baltimore.—Market.—City will soon begin renovating Belair Market; to be provided out of \$20,000 appropriated by Board of Estimates for maintenance and improvement of city markets; Edward A. Preston, Building Inspector, City Hall.

Miss., Lambert.—Store.—D. A. Yarbrough & Bro. will erect store to replace structure recently reported burned; loss \$15,000.

Mo., Kansas City.—Business.—Mrs. Emma J. Meyer will erect business building at 112 Grand Ave.; four stories and basement, with foundation for eight stories.

Mo., Kansas City.—Clubhouse.—Independence Boulevard Christian Church, Gladstone Boulevard, has plans by Henry F. Holt, Kansas City, for two-story clubhouse for young men; 36x77 feet; cut stone and gray pressed brick; will contain gymnasium 34x54 feet and swimming pool 18x45 feet; basement of clubhouse to be connected with basement of annex.

Mo., St. Louis.—Stores.—Kellerman Contracting Co., 510 Pine St., has plans by Widman & Walsh, St. Louis, for six-story store, office and storage building; cost, \$30,000; construction begun. (See "Warehouses.")

N. C., Albemarle.—Store.—Stanly Supply Co. has plans by Hunter & Gordon, Charlotte, N. C., for store building.

N. C., Albemarle.—Sanitarium.—Albemarle Development Co., J. C. Masters, secretary, awarded contract to L. A. Moody, Albemarle, for erection of sanitarium and hotel; 25x44 feet, with two wings 44x100 feet each; sanitarium will be 80x100 feet; five stories; brick; steam heat; electric lighting; cost, \$200,000; plans by Mr. Moody; company will also erect 60x70-foot theater; two stories; cost \$25,000.

N. C., Raleigh.—Clubhouse.—Raleigh Country Club, E. C. Hillyer, president, is having plans prepared by C. W. Barrett, Raleigh, for clubhouse recently mentioned; ordinary

construction; 90x50 feet; hot-air heat; cost \$11,000. (See "Machinery Wanted.")

N. C., Sanford—Business.—Insurance, Realty & Investment Co. contemplates erection of two-story brick business building; plans indefinite.

Okla., Oklahoma City—Store.—W. A. Brooks and L. L. Land have not selected architect to prepare plans for store and office building (recently noted); 50x140 feet; steam heat; cost, \$40,000.

Okla., Tulsa—Business.—L. R. Stansbury will erect business building; two stories; cost \$6200.

Okla., Tulsa—Business.—L. K. Cone and G. R. McCullough will erect business block; three stories; brick; 50x140 feet; cost \$18,000.

S. C., Batesburg—Stores.—O. A. Osborne, A. Osborne and A. H. Pollock have plans by John M. Porter, Blacksburg, S. C., for erection of three store-and-office buildings; each 80x40 feet; brick; plate-glass fronts; two stories; contract to be awarded in ten days.

S. C., Florence—Stores.—J. F. Stackley Company will erect stores; two stories; brick, iron and granite; 60x150 feet; Silas Bounds, contractor, Florence.

Tenn., Bristol—Store.—Claude H. Brady, Roanoke, Va., will rebuild burned store building (recently mentioned).

Tenn., Chattanooga—Clubhouse.—Mountain City Club, 729 Chestnut St., awarded contract to John E. Davis, Chattanooga, for erection of proposed addition to clubhouse; two stories and basement; brick and reinforced concrete; cost \$2900; plans by Chas. E. Bearden, Chamberlain Bldg., Chattanooga.

Tenn., Cumberland Gap—Club.—Kytenna Club, J. N. Wright, president, has not selected architect to prepare plans for clubhouse (recently noted under "Dwellings"); 10 rooms; log building; fireproof if possible; cost within \$10,000; plans indefinite.

Tenn., Memphis—Store.—William Floyd will erect store building.

Tenn., Nashville—Lodge.—Masonic lodge has plans by Foster-Creighton-Gould Company, Nashville, for erection of temple; three stories; stone, light brick and terra-cotta; reinforced-concrete floors; cost \$150,000.

Tex., Brownwood—Business.—Brooke Smith reported to erect 50x200-foot brick business structure.

Tex., Mingus—Business.—M. F. Murdock, Jackson, Tenn., will erect brick business building; 50x50 feet.

Tenn., Morristown—Business.—A. H. Smith will erect business building.

Tex., Palacios—Store.—C. F. Emmons will erect two-story brick store and office building.

Tex., Port Arthur—Lodge.—Elks' Lodge will erect lodge, garage and theater building; four stories; reinforced concrete; 65x125 feet; theater on ground floor, with ceiling three stories; cost \$30,000. (Recently mentioned.)

Tex., Houston—Commercial.—E. L. Dennis will expend \$16,000 to erect commercial building; plans by F. S. Glover & Son, Houston (recently noted); ordinary construction; electric lighting; electric freight elevator; bids opened.

Tex., Stamford—Pythian Hall.—Stamford Lodge, No. 297, Knights of Pythias, will erect hall, 27½x100 feet.

Tex., Stamford—Sanitarium.—Rev. F. S. Groner, pastor First Baptist Church, is interested in erection of sanitarium; fireproof; cost \$100,000.

Tex., Texarkana—Store.—M. Lothrop, Marshall, Tex., has plans by Wm. Forsland, Marshall, for building to be occupied by Marshall Wholesale Grocery Co., Texarkana, Ark.; 100x140 feet; brick; gas lighting; heating not determined; electric elevators; cost \$10,000. (Recently noted under Texarkana, Ark.)

Va., Fredericksburg—Store.—Mrs. R. R. Buffington awarded contract to A. M. Garner, Fredericksburg, for erection of brick store; 22½x42 feet; plate-glass front.

Va., Richmond—Stores.—W. H. Schwarzschild has plans by D. Wiley Anderson for erection of three stores; three stories.

W. Va., Wheeling—Car Barn.—Wheeling Traction Co. will erect additional car barn.

W. Va., Wheeling—Clubhouse.—Columbia Club of St. Alphonsus German Catholic Church has plans by George S. Mooney of Wheeling for erection of clubhouse; 77x122 feet; three stories and basement; brick, stone and terra-cotta; fireproof; will contain auditorium, 1700 seating capacity; cost \$50,000.

MUNICIPAL BUILDINGS

Ark., Little Rock—Building.—City is having preliminary plans prepared by J. M. Whitehead of Little Rock for building to be used by fire and street departments; build-

ing to be two stories; brick; 100x90 feet; cost \$50,000; W. R. Duley, Mayor.

D. C., Washington—Comfort Stations.—District of Columbia awarded contract to Boyle-Robertson Construction Co., Union Trust Bldg., Washington, for erection of two comfort stations, Nos. 3 and 5, recently noted; 25x75 feet and 40x50 feet, respectively; fireproof construction; hot-air heat; electric lighting; cost about \$30,000; plans by municipal architect, Washington.

Ga., Macon—Engine-house.—Fire committee, J. Ross Bowdre, chairman, opened bids February 8 for erection of two-story brick engine-house on Ward St., Vineville; plans and specifications on file in office of Mr. Bowdre.

La., New Orleans—Public Baths.—City awarded contract to Michael Chesse & Co. of New Orleans at \$9990 to erect public bathhouse. (Recently mentioned.)

Md., Baltimore—Library.—Joseph Evans Sperry, 409 Calvert Bldg., Baltimore, completed plans for branch of Enoch Pratt Library to be erected at Beason and Towson Sts., Locust Point; 78x30 feet; brick and stone; interior finished in hardwood.

Mo., Kansas City—Market.—Board of Public Works approved plans by Edgar C. Faris of Kansas City for market; will consist of series of steel sheds; cost, \$30,000.

Okla., Enid—Jail.—City will vote on issuance of \$5000 bonds for erection of jail. Walter H. McKenzie, Mayor.

Okla., Hennessey—City, through R. W. Wylie, chairman Board of Trustees, is having plans prepared by Frank Nowell, Hennessey, for city hall and jail recently mentioned; two-story brick building, with vault; some steel work; heating plant; contract to be let after bonds are sold; will probably open bids about March 1.

Va., South Boston—City Hall.—City will erect building costing within \$12,000; plans to be called for; Henry Easley, chairman of building committee.

W. Va., Wheeling—Library.—Board of Education invites architects to submit plans and specifications until February 16 for public library to be built on site of old high school; structure to be of brick and steel; fireproof; eight rooms; heated from plant in new high school by radiation system; plans to be delivered at office of Frank Stanton, clerk, 1113 Schumbach Bldg.; W. J. Steen, chairman Commission of Buildings and Grounds.

RAILWAY STATIONS

Ala., Bessemer—Atlanta, Birmingham & Atlantic Railroad, Alex. Bonnyman, chief engineer, Atlanta, Ga., has plans and will award contract within 30 days for erection of concrete freighthouse recently noted; wooden frame; iron siding; tar and gravel roof; 25x100 feet; cost \$2000.

Ark., Van Buren—St. Louis, Iron Mountain & Southern Railway, M. L. Byers, chief engineer maintenance of way, St. Louis, Mo., will erect depot; two stories; 60x127 feet; pressed brick; stone trimmings; tile roof; first floor to be devoted to passenger department and second floor to division officials; cost \$29,000.

Ga., Augusta—Augusta Railway & Electric Co., James R. League, general manager, opened bids February 10 for erection of terminal building at 8th and Telfair Sts. in accordance with plans and specifications prepared by G. Lloyd Preacher, architect and engineer, 403-404 Dyer Bldg., Augusta, at whose office plans and specifications can be seen. (Further facts recently mentioned.)

Ga., Cedartown—Central of Georgia Railway, C. K. Lawrence, chief engineer, Savannah, Ga., purchased site on which to erect passenger and freight station.

La., Monroe—Mississippi Central Railroad Co., R. K. Smith, general manager, Hattiesburg, Miss., will rebuild depot recently burned; one-story 30x60-foot frame structure; erection by company's force.

Mo., Joplin—Gulf, Colorado & Santa Fe Railway, F. Merritt, chief engineer, Galveston, Tex.; Kansas City Southern Railway, A. F. Rust, resident engineer, Kansas City, Mo.; Missouri & North Arkansas Railroad, F. J. Allen, resident engineer, Eureka Springs, Ark.; Missouri, Kansas & Texas Railway, S. B. Fisher, chief engineer, St. Louis, Mo., will erect \$600,000 union depot; J. B. Hodgdon, City Engineer, has been selected as chief supervising engineer by associated railroads.

Va., Norfolk—Norfolk Terminal Railway Co. incorporated to build union passenger station and accompanying facilities for use of Norfolk & Western, Virginian and Norfolk & Southern Railways; will have bond capital of \$1,000,000; building to be fireproof; brick; three to five stories; cost, \$350,000 to \$800,000; eight or nine tracks to lead into

building; L. E. Johnson, president, Roanoke, Va.; Raymond Du Puy, vice-president; Francis W. Russel, secretary; Caldwell Hardy, treasurer, each of Norfolk. (Previously reported proposed.)

W. Va., Wheeling—Wheeling Terminal Railway, A. L. Morgan, superintendent, will erect freight depot and passenger station.

SCHOOLS

Ala., Anniston—Grace Episcopal Church will rebuild burned school building; loss \$25,000.

Ala., Cloverdale—Woman's Methodist College is proceeding with erection of proposed college building and will receive bids for plumbing, heating, lighting and wiring same; plans by Paterson Smith, Boston, Mass., and B. B. Smith, Cloverdale; cost \$150,000.

Ala., Jasper.—City is having plans prepared by D. O. Whildin, Birmingham, Ala., for proposed \$15,000 school; two stories and basement.

Ark., Russellville.—School Board will erect school.

D. C., Washington.—Cuno H. Rudolph, John A. Johnson and William V. Judson, Commissioners, will receive bids until February 17 for erection of John Eaton School, No. 160, northeast corner Lowell and 34th Sts., subdivision of Cleveland Heights; blank forms, etc., may be obtained from Chief Clerk Engineering Department, Room 427, District Bldg.; deposit of \$10 required to guarantee return of plans.

Fla., Miami.—R. E. Hall, superintendent Board of Public Instruction, will receive tentative plans until March 3 for high-school building; preferably concrete, with assembly hall; seating capacity 150; five classrooms, physical and chemical laboratories, library, principal's office; said building to be ultimately wing of large building to be erected later; usual rights reserved.

Fla., Tampa—Tampa Business College, L. M. Hatton, president, had plans prepared by and awarded contract to E. H. Kratz, Twelfth Ave., and O. H. Neylons, Nebraska Ave., Tampa, for erection of \$5000 college building recently mentioned; 50x100-foot stone structure.

Ga., Collins.—City issued \$7500 of bonds to erect school; H. H. Elders, City Attorney.

Ga., Cusseta.—Chattahoochee county will vote February 17 on issuance of \$2500 school bonds. Address Chattahoochee County Commissioners.

La., Ama.—St. Charles Parish awarded contract at \$2800 to O. Keller, Ama, for erection of two-room school. (Recently mentioned.)

La., Homer.—City will erect high school; brick; stone trimmings; 10 classrooms; auditorium with seating capacity of 500; cost \$30,000. Address The Mayor.

La., Mamou.—City awarded contract to A. J. Robert for erection of proposed school building; two stories; 50x80 feet; plans by J. Chaschery.

La., Montz.—St. Charles Parish School Board awarded contract to Ozeene Kellar, Montz, for erection of proposed school building; 48x62 feet; frame; stoves; cost, \$2800; plans by Dr. L. Young, Boutte, La.

Md., Pikesville.—St. Charles Church, Rev. M. J. Riordan, pastor, is having plans prepared for erection of parochial school.

Mo., St. Louis.—Fred Boeckle, St. Louis, is lowest bidder, at \$155,000, for erection of Madison School, Seventh and LaSalle Sts. N. C., Nazareth, P. O. Raleigh.—Roman Catholic orphanage will rebuild burned school and dormitories; brick; cost \$20,000.

Okla., Ardmore.—City will erect \$100,000 school building. Address The Mayor.

Okla., Cameron.—State Board of Agriculture, Charles F. Barrett, secretary, Guthrie, Okla., awarded contract at \$22,456 to John O. Johnson, Oklahoma City, Okla., for erection of Cameron State School of Agriculture, complete with heating plant. (Lately mentioned.)

Okla., Lawton.—Secretary of Interior, Washington, D. C., has rejected bids for construction of school and will invite new bids. Frank Pierce, First Assistant Secretary. (Lately reported.)

Okla., Stillwater.—State Board of Agriculture, Charles F. Barret, secretary, Guthrie, Okla., has awarded contract at \$14,690 to George Erichsen, Ardmore, Okla., for heating and power plant at Agricultural and Mechanical College; at \$700 for pipe tunnel for heating plant to John A. Johnson, Oklahoma City, Okla. (Lately mentioned.)

Okla., Wynoka.—O. H. Patterson, clerk of School District No. 3 of Woods county, has plans by F. E. Granthen for 12-room school

building (recently noted); 68x84 feet; ordinary construction; cost, \$17,000; bids opened.

Tenn., Fayetteville.—City (G. W. Holder, Mayor) awarded contract to Willingham & Co., Chattanooga, for erection of high school (bond issue recently noted); hard pine interior finish; steam heat; cost \$18,500; plans by Dickey & Co., Nashville.

Tenn., Johnson City.—Milligan College is having plans prepared for erection of \$35,000 science hall. Address Milligan College trustees.

Tenn., Fayetteville.—City awarded contract at \$18,500 to Willingham & Co., Chattanooga, Tenn., for erection of high school. (Bond issue recently noted.)

Tenn., Johnson City.—Milligan College has plans by C. G. Mitchell, Johnson City, for science hall, library, gymnasium, etc.; brick and concrete; 72x128; cost \$30,000; may not erect during this year; Geo. W. Hardin, treasurer.

Tenn., Nashville.—Board of Education is having plans prepared by Robert Sharp, Nashville, and William Ittner, St. Louis, Mo., for erection of school building; four stories; 300x250 feet; fireproof construction; heating undecided; electric lighting; cost \$250,000. (Recently noted.)

Tex., Abbott.—Abbott School District will vote February 26 on \$12,500 of bonds to erect school; brick or stone. Address County Judge Porter, Hillsboro, Tex.

Tex., Aquilla.—Secretary School Board will receive bids until February 14 for erection of two-story brick school; plans and specifications on file at office of secretary and Scott & Pearson, Waco, Tex.

Tex., Brownwood.—Daniel Baker College is having plans prepared and will soon invite bids for erection of dormitory building.

Tex., Canyon City.—State Board of Education awarded contract at \$89,000 to Martin Holderness & Otis Construction Co., Stamford, Tex., for erection of West Texas State Normal School; three stories; mission style; auditorium with seating capacity of 1500; plans by Waller, Shaw & Fields, Fort Worth, Tex.; contract for plumbing and heating to be awarded later. (Recently mentioned.)

Tex., China.—School District contemplates voting on issuance of \$12,000 bonds for erection of school. Address School Commissioners.

Tex., Crawford.—School Board, C. H. Roberts, president, will receive bids until March 7 for construction of addition to school; each proposal must be accompanied by certified check for 5 per cent. amount of bid, payable to C. H. Roberts; plans on file at office of J. H. Herbert, Waco, Tex., and at office of president of school board.

Tex., Groesbeck.—City will rebuild burned school building lately mentioned; cost \$25,000. Address The Mayor.

Tex., Harlingen.—Harlingen Independent School District contemplates issuing bonds to erect school; brick; cost \$40,000. Address School Trustees.

Tex., Hondo.—School Board, H. E. Haas, president, will erect \$10,000 addition to school building.

Tex., Huntsville.—City contemplates \$5000 addition to present school building; E. E. Bramlette, secretary School Board.

Tex., Laredo.—School Board awarded contract at \$21,400 to Ricardo Ortiz, San Antonio, Tex., for erection of school.

Tex., Mart.—City will rebuild burned school (lately mentioned). Address The Mayor.

Tex., Marquez.—City voted issuance of \$7500 bonds for erection of brick school. Address The Mayor.

Tex., Marshall.—American Baptist Home Mission Society has plans by C. G. Lancaster, Marshall, for college dormitory; 45x143 feet; ordinary construction; steam heat; natural-gas lighting; cost \$30,000; will open bids about April 1; address C. H. Maxon. (Recently mentioned.)

Tex., Newcastle.—School Board awarded contract at \$9,443 to H. Amman, Wichita Falls, Tex.; plans by Jones & Orlopp, Wichita Falls, Tex.

Tex., Paint Rock.—School Trustees, W. B. Woodruff, president, will receive bids until February 21 for construction of two-story brick school building; plans on file at office of Waller, Shaw & Fields, Fort Worth, Tex.

Tex., West.—City will vote February 23 on \$6000 bond issue for improvement of school building. Address The Mayor.

Va., Chatham.—Chatham Training School for Boys will erect school; brick; cost \$10,000.

Va., Johnstown.—City contemplates voting on issuance of \$367,000 school bonds. Address The Mayor.

W. Va., Thomas.—City awarded contract at \$25,000 to Holbert & Spedden, Fairmont, W. Va., for erection of proposed brick high school; 110x65 feet; two stories and basement; fireproof floors; warming and ventilating heating system; electric lighting; plans by Holmboe & Lafferty, Clarksburg.

THEATERS

Ark., Little Rock.—Kempner Opera-house Co. incorporated with \$65,000 capital stock to erect theater and hotel combined; six stories; brick; 80x150 feet; auditorium to have seating capacity of 1600; 20 exits; foundation estimated to cost \$3000; plans by Herts & Erlanger of New York; Ike Kempner is president, M. S. Oppenheimer vice-president, Dave Kempner secretary and Melvin J. Kempner treasurer. (Recently mentioned.)

Ark., Little Rock.—Abe Stilwell will erect moving-picture theater; fireproof; brick; 60x100 feet; two stories; front protected by glass awning; five fire escapes; stage, 30x25 feet; lower floor to have 475 seats and balcony about 300; private heating plant.

Ga., Savannah.—Bandy Bros. purchased site for about \$13,000 and have plans for theater.

Mo., St. Louis.—Middleton Theatrical Co., Louis J. Cella, president, has concluded negotiations for proposed Grand Opera House and connecting hotel at 6th and Market Sts.; hotel to have 200 rooms; theater to have seating capacity of 2000; walls of parquet to be wainscoted five feet high, in marble; estimated cost, \$100,000; plans by Barnett, Haynes & Barnett of St. Louis; contracts awarded.

Mo., St. Louis.—Mercantile Trust Co. will erect theater and office building; 12 stories; seating capacity of theater 2200.

N. C., Albemarle.—Albemarle Development Co., J. C. Masters, secretary, will erect two-story theater; 60x70 feet; cost, \$25,000. (See "Miscellaneous Structures.")

N. C., Weldon.—J. F. Batchelor is figuring on erection of opera-house.

Tex., Port Arthur.—Elks' Lodge will erect theater and lodge building. (See "Miscellaneous Structures.")

W. Va., Bluefield.—Lubin Amusement Co., 926 Market St., Philadelphia, Pa., will not erect theater, as recently noted.

WAREHOUSES

Ala., Birmingham.—Steiner Bros. have not let contract for erection of wholesale warehouse; 100x157½ feet; fireproof or mill construction; three freight elevators; cost \$50,000 plans by H. B. Wheelock, Birmingham. (Recently noted under "Miscellaneous Structures.")

D. C., Washington.—Fidelity Storage Co., 1420 U St. N. W., is having plans prepared by Charles Gregg, 1812 G St. N. W., for addition to building; nine stories; brick and steel construction; cost \$100,000.

La., Crowley.—Texas Company, Houston, Tex., will erect warehouse and office building; cost \$10,000.

Md., Baltimore.—Baltimore Steam Packet Co., John R. Sherwood, general manager, 10-13 Light St. Wharf, awarded contract to John Hiltz & Sons' Company, 3 Clay St., Baltimore, at \$13,654, to erect two one-story sheds at Pier 5, Union Dock; one structure is to be 36x210 feet and other 60x257 feet; slag roof.

Mo., St. Louis.—Orcutt Bros. Storage Co. will expend \$23,000 to erect warehouse; fireproof construction; will install elevator; subcontracts let; contract recently noted awarded to C. L. Gray Construction Co., St. Louis.

Mo., St. Louis.—Kellerman Contracting Co., 510 Pine St., will expend \$310,000 to erect store, office and storage building (construction recently noted begun), to be occupied by Langan & Taylor Storage & Moving Co. and others; six stories; 15x135 feet; fireproof construction; reinforced concrete; plans by Widman & Walsh, St. Louis.

N. C., Rocky Mount.—Tobacco Planters' Warehouse Co. incorporated with \$20,000 capital stock by R. H. Moore of Rocky Mount, John L. Bailey, Elm City, N. C., and others.

S. C., Charleston.—Charleston East Shore Terminal Co., William E. Huger, president, will erect two cotton warehouses, one to be 500 feet long and other 132 feet long; capacity 15,000 bales of cotton.

S. C., Edgefield.—W. A. Strom will erect warehouse.

Tex., Dallas.—E. J. Fry and Charles Cobb, Jr., decided to add another story to warehouse for Texas Plate-glass Co., making it four-story structure; contract recently reported to M. S. Hasie Construction Co., Dal-

las, Tex.; plans by Lang & Witchell, Dallas, Tex.

Tex., Knox City.—Farmers' Union Warehouse Co. incorporated with \$2040 capital stock by W. H. Benedict, M. A. Lowrey and L. W. Bohanan.

Tex., Port Lavaca.—McKamey Bros. will erect warehouse; 55x60 feet; two stories; exterior of corrugated iron; fireproof.

RAILROAD CONSTRUCTION

RAILWAYS

Ala., Cuba.—The Alabama, Tennessee & Northern Railroad is reported surveying for an extension to Cuba, about 30 miles. William Toxey is chief engineer at Cochrane, Ala.

Ala., Manatee.—The Manatee & Repton Railroad, 19 miles long, from Manatee to Manatee Junction, on the Louisville & Nashville Railroad, is reported purchased by W. B. Runyon and C. R. Burgoyne, who will incorporate the Runyan & Burgoyne Lumber Co. and may build an extension.

Ark., DeQueen.—An officer of the DeQueen & Eastern Railway Co. denies the press report that an extension to Hot Springs at an early date is contemplated.

Ark., England.—The Central Arkansas & Eastern Railroad, now about eight and one-half miles from England to McGregor's Break, is reported contemplating an extension from the latter to Stuttgart, Ark., about 20 miles. Robert M. Foster is president.

Ark., Helena.—The Missouri & North Arkansas Railway Co. is reported contemplating an extension to Memphis, Tenn., from 50 to 65 miles. John Scullin of St. Louis is president and S. W. Lee is engineer at Eureka Springs, Ark.

Ark., Nashville.—The Memphis, Paris & Gulf Railway is reported to have let contract for extension from Ashdown, Ark., to Clarksville, Tex., on line to Dallas, Tex., including bridge over Red River. H. C. McClure is chief engineer at Nashville, Ark.

Ark., Rogers.—Construction is reported begun, says a dispatch, three miles south of Rogers for an extension of the Arkansas, Oklahoma & Western Railway to Bald Knob, Ark., 172 miles eastward to connect there with the Missouri Pacific; W. R. Felker of Rogers, Ark., is president.

Ark., Rogers.—An interurban railway from Rogers to Bentonville, nine miles, is said to be assured, capital being obtained. The Mayor may be able to give information.

Fla., DeFuniak Springs.—A letter says that John J. MacIntire of De Funiak Springs is promoting the projected Gulf, DeFuniak & Northern Railroad.

Ga., Atlanta.—Concerning the report that team tracks would be built by the Southern Railway at Atlanta an officer writes that no instructions have been given for such construction.

Ga., Cordele.—Plans are reported under way to build an electric railway from Cordele to Daphne. The Mayor of Cordele may be able to give information.

Ga., Hawkinsville.—The Hawkinsville & Western Railroad Co., recently organized, will use the old Grovania grade for about eight or nine miles crossing the Georgia Southern & Florida Railway at either Grovania, Elko or Unadilla, and thence running east. The directors are T. B. Ragan of Hawkinsville, president; J. J. Whitfield of Hawkinsville and J. K. Livingston of Cordele, vice-presidents; H. E. Coates of Hawkinsville, secretary and treasurer; E. B. Lewis of Montezuma, C. C. Duncan, Jr., of Perry, C. A. Horne of Unadilla, E. J. Henry, W. N. Parsons, P. H. Lovejoy, R. S. Anderson and J. J. Harvart of Hawkinsville, Ga.

Ga., Savannah.—The Central of Georgia Railway, it is reported, will build a new steel bridge over the Chattahoochee River at Columbus, Ga., at a cost of \$150,000, besides replacing with steel bridges several wood and iron bridges at various points. Two large trestles on the Covington branch are to be filled in. C. K. Lawrence is chief engineer at Savannah, Ga.

Ga., Sylvester.—Reported that the Gulf Line Railway, formerly the Hawkinsville & Florida Southern, will be extended from Bridgeboro to Camilla, Ga., about 40 miles; W. J. Edwards is president and purchasing agent at Sylvester, Ga.

Ky., Cynthiana.—The Cincinnati, Newport & Licking Valley Railroad Co., capital \$20,000, has been incorporated to build an electric railway from Cynthiana to Newport, Ky., about 65 miles. The incorporators are R. W. Day, F. L. Fuller and Wade H. Lall.

Ky., Wasioto.—The proposed extension of the Wasioto & Black Mountain Railroad

from Toms Creek to Harlan, Ky., 24 miles, for which bids have been received, will require work approximately as follows: Clearing, 100 acres; grubbing, 30 acres; excavation, 546,000 cubic yards; bridge masonry, 2300 cubic yards; concrete, 3100 cubic yards; box culvert masonry, 5100 cubic yards; tunnel, 520 lineal feet. When completed to Harlan, an extension of 72 miles along Poor Fork into Letcher county may be built. T. J. Asher & Sons of Wasioto, Ky., are building the line. A. B. Gloster, Middlesboro, Ky., is mentioned as chief engineer. A report from Knoxville, Tenn., says that the Calhahan Construction Co. of that city has secured the 24-mile contract, to be completed in seven months.

La., New Orleans.—An ordinance has been prepared by I. D. Moore, City Attorney, to sell a railway franchise in Algiers from the intersection of Morgan and Patterson Sts., along the later to Hendee St., to Newton St., to McEllanville, and thence to the Mississippi River; any motive power, excepting steam, may be used; reported that the plan contemplates a line from Algiers to points along the lower coast of Louisiana, and that Peter S. Lawton, ex-Gov. H. C. Warmoth and Theodore S. Wilkinson are interested.

La., Port Barre.—The Gulf, Delta & North-western Railroad Co., capital \$2,000,000, has been chartered to build a line from Port Barre to Moreauville, La., about 35 miles, and also to other points. The directors are E. B. and O. H. Williams of New Orleans, La.; D. C. Scarborough of Natchitoches, La.; John T. McElroy of Odessa, Tex.; E. E. Overstreet and Snelson Chesney of St. Louis, Mo., and C. W. Robinson of New Orleans; the Southern Sawmill Co. (E. B. Williams and others) and the Avoynes Cypress Co. of Cottonport, La., are said to be interested; the latter has about eight miles of lumber railroad.

Md., Baltimore.—Concerning the plans of the Northern Central Railway (Pennsylvania system) to build shops east of Highlandtown, it is reported that land has been purchased at Bayview Junction and a roundhouse for 75 engines will be erected, besides new shops employing from 500 to 600 men. An electric light plant will be erected. J. H. Nichol is principal assistant engineer at Williamsport, Pa.

Md., Frederick.—The Frederick Railroad Co., which contemplates an extension from Thurmont to Emmitsburg, Md., about seven miles, has elected officers as follows: President, Emory L. Coblenz; vice-presidents, Dr. Franklin B. Smith, Harry E. Clark, Walter S. Taylor; secretary, Charles C. Waters; treasurer, Thomas H. Haller. Walter S. Taylor was made general manager, George F. F. Anderson, superintendent, and S. H. Bennett, auditor.

Md., Hagerstown.—The Western Maryland Railroad has bought 12 acres of land in the southern suburbs of Hagerstown and may make improvements. H. R. Pratt is chief engineer at Baltimore, Md.

Miss., Fernwood.—The Fernwood Lumber Co. is asking bids for grubbing and grading a four-mile extension of the Fernwood & Gulf Railway, about 12,000 cubic yards per mile.

Miss., Lambert.—The Lamb-Fish Lumber Co., according to a dispatch, will build a three-mile railroad extension into timber lands; present line is from Chancy to the Tallahatchie River.

Miss., Pascagoula.—The Louisville & Nashville Railroad, it is reported, contemplates building an embankment between Scranton and West Pascagoula to protect its line from Gulf storms. W. H. Courtney is chief engineer at Louisville, Ky.

Mo., Jefferson.—T. S. Mosby, secretary of the executive committee Jefferson Commercial Club, writes that the Missouri Pacific Railway will this year extend from Bagnell to Springfield, Mo., about 80 miles. E. F. Mitchell is engineer of construction at St. Louis, Mo.

Mo., Joplin.—The proposed union depot to be erected in Joplin by the Santa Fe, the Kansas City Southern, the Missouri & North Arkansas and the Missouri, Kansas & Texas Railways will, it is reported, cost about \$600,000. J. B. Hodgdon is chief engineer at Joplin, Mo., and he is reported as saying that work will begin soon; W. H. Bush, assistant engineer of the Kansas City Southern, is quoted as saying that construction of the station will be started very shortly.

Mo., St. Louis.—James D. Houseman writes that the press report about his belt line recently was erroneous and that neither of the other parties mentioned are connected with the proposition; address 414 Roe Bldg., St. Louis, Mo.

N. C., Leakesville.—Survey is reported under way for a railroad extension from

Leakesville to Madison, N. C., about 15 miles. W. H. Wells, chief engineer of construction of the Southern Railway, Washington, D. C., may be able to give information.

N. C., Winston-Salem.—The stockholders of the Winston-Salem Southbound Railway have authorized a \$5,000,000 bond issue for building and equipping the road, which is already under construction. O. H. P. Cornell is chief engineer at Winston-Salem, N. C.

Okla., Altus.—The Wichita Falls & North-western Railway, or Wichita Falls Route, is reported to have purchased the Altus, Roswell & El Paso Railway's grade, which has been built from Altus, Okla., to Wellington, Tex.; Ed. Kennedy of Altus is president of the later line; J. A. Kemp is president of the Wichita Falls Route at Wichita Falls, Tex.

Okla., Bartlesville.—Preliminary survey for the Osage & Western Railway is made from Bartlesville to Vinita, and E. J. Noonan, chief engineer, is quoted as saying that grading will begin inside of 60 days.

Okla., Frederick.—A late report about the railroad in which C. A. Swartz of Frederick and Milo M. Keller of Loveland, Okla., are interested says it is named the Higgins, Elk City & Chattanooga, and is to run from Higgins, on the Santa Fe System in the Panhandle, to Buckburnett, on the Red River; it will reach Snyder, Lone Wolf, Elk City, Cheyenne and other points; Sam Ransom of Aransas Pass, Tex., is said to be actively concerned.

Okla., Lawton.—The Wichita Falls Route proposes to build from Devoil to Lawton, about 30 miles, for the right of way and a bonus of \$40,000. The Chamber of Commerce is considering the offer. Frank Kell, Wichita Falls, Tex., is vice-president and general manager of the line.

Okla., Tulsa.—Application has been made for a franchise in Tulsa for the proposed line of the Mid-Continent Traction Co., which will connect Bartlesville, Muskogee, Okmulgee, Sapulpa and other points in Oklahoma, besides Coffeyville and other Kansas towns. Among those concerned are D. H. Sigfus, of the Union Trust Co., Coffeyville, Kan.; H. F. Sinclair and R. S. Litchfield of Independence, Kan.; P. J. White of Tulsa, Okla., and others.

Okla., Texhoma.—The Denver & Gulf Railroad Co. has been incorporated to build a line about 100 miles long from Texhoma westward along the northern boundary of Texas; capital \$100,000; headquarters at Texhoma, Okla.; the incorporators are W. A. Evans, H. C. Umsted, James Hicks, J. L. Williams, R. R. Hargis, W. A. Turner, W. R. Russell, W. D. Furber, A. Young Ingham and J. W. Elliott; a dispatch from Denver says the line will connect near Limon, Col., with the Union Pacific Railway; southeast it will reach Dallas, Tex.; Franklin A. Umsted and others of Chicago are interested.

Okla., Walter.—The Kansas, Lawton & Gulf Railway Co., capital \$5,000,000, has amended its incorporation articles providing for a branch 300 miles long from the southern part of Comanche county and running northeast to Stephens, Grady, McClain, Cleveland, Oklahoma, Logan, Payne, Pawnee and Osage counties to the State boundary. The original line planned is 250 miles long from Randlett, in Comanche county, northwest through Kiowa, Caddo, Custer, Washita, Dewey, Woodward and Parker counties to the Kansas boundary. The directors are A. W. Green, H. F. Crossman, C. M. Beacham and E. F. Sawyer of Walter, Okla., and J. M. Bellamy of Lawton, Okla.

S. C., McBee.—Charter has been granted for the South Carolina & Western Railway, capital \$500,000, to build a line from McBee via Hartsville to Florence, S. C., about 40 miles. The incorporators are W. R. Bonsai, J. E. Hancock, Charles Gibbons, S. O. Bauerfeld and Samuel Lawrence of Hamlet, N. C. Stock subscription books are to be opened immediately, survey having been made.

Tenn., Johnson City.—The East Tennessee & Western North Carolina Railroad is reported securing rights of way for a branch two miles long in Carter county; George W. Hardin is vice-president and superintendent at Johnson City, Tenn.

Tex., Amarillo.—The Chicago, Rock Island & Gulf Railway, it is reported, will spend about \$300,000 for improvements at Amarillo, including a 12-stall roundhouse and 12 miles of yard track. A. B. Warner is chief engineer at Fort Worth, Tex.

Tex., Beeville.—Lee Frisby of Austin, Tex., is reported representing a syndicate and is quoted as saying that a railroad will be built from either Beeville or Kennedy westward to Oakville, Cotulla and other points, survey to begin within three weeks and construction to be started by September 1.

Tex., Brownwood.—The Brownwood North & South Railway Co., which proposes to build 30 miles of line immediately, was chartered January 29, and has elected officers thus: Brooke Smith, president; Will H. Mayes, vice-president; D. F. Johnson, secretary; Ward McConnell, treasurer. The road will run from Brownwood to May, Tex. Contracts for grading and bridging will probably be let between February 20 and March 1. John Meade is chief engineer.

Tex., Dallas.—The franchise of the Dallas Interurban Electric Railway Co., owned by J. Mercer Carter and others, has been sold to Dr. Robert C. Buckner for \$4700. He represents a syndicate and is quoted as saying that he wants an electric railway to the Buckner Orphans' Home, seven miles east of Dallas, of which he is president. Construction must begin under the franchise by April 1 and 30 miles must be completed by December 31 next. The East Texas Traction Co., previously reported, and of which S. B. Marshall of Mesquite, Tex., is president, is believed to be interested.

Tex., Denison.—The Missouri, Oklahoma & Gulf Railway is reported to have let contract for its extension to Denison. J. J. Harrison is chief engineer at Calvin, Okla.

Tex., Fort Worth.—Liberal subscriptions are reported for the proposed Fort Worth and Mineral Wells Interurban Railway; Paul Waples (chairman), N. H. Lassiter, W. C. Strubling, Bacon Saunders and C. I. Dickinson are the committee; J. S. Handford is president and Michael Hurley vice-president of the enterprise, titled Fort Worth, Mineral Wells & Western Railway Co.

Tex., Fort Stockton.—The Commercial Club has received an offer from Fort Worth (Tex.) people to build a railroad from Monahans, on the Texas & Pacific Railway, to Fort Stockton. Address the secretary of the club.

Tex., Pecos.—The Pecos Valley Southern Railway is reported to have started grading on 41 miles to the Davis Mountains, to be completed by June 1. N. T. Reed, contractor, has charge of work.

Tex., San Antonio.—The San Antonio, Rio Grande & Tampico Railway Co. has filed charter to build a standard-gauge line from San Antonio about 50 miles to a point on the boundary of McMullen and LaSalle counties, midway between the Nueces and Frio Rivers; headquarters at San Antonio; capital, \$50,000. The incorporators are: J. F. Edwards of St. Louis; A. B. Hedden of Plainfield, N. J.; G. Stuart Simons of New York; H. M. Aubrey and A. L. Matlock of San Antonio, Tex., and others. Officers: President, J. F. Edwards; vice-presidents, George W. Lenox of St. Louis; H. M. Aubrey and W. A. Cullinan of San Antonio; secretary, H. C. King; general counsel, A. L. Matlock.

Tex., Uvalde.—The Crystal City & Uvalde Railroad Co. has amended charter for extension from Crystal City to Carrizo Springs, Tex., 12 miles; A. R. Ponder of Uvalde is president.

Tex., Uvalde.—The Uvalde & Leona Valley Interurban Railway Co., according to a report quoting an official, has made surveys from Uvalde to Batesville, Tex., 22 miles; right of way and capital are partially secured; not yet decided when contracts will be let. Charles Petersen of San Antonio, Tex., is president and M. M. McFarland of Uvalde, Tex., is vice-president and general manager.

Tex., Wichita Falls.—The Wichita Falls Route, according to a press report, projects a line from Wichita Falls westward to Roswell, N. M., 350 miles, and preliminary survey is under way. R. H. Baker of Houston, Tex., who has just resigned as president of the Trinity & Brazos Valley Railway, is said to be interested with J. A. Kemp and Frank Kell of the Wichita Falls Route, Wichita Falls, Tex., in the enterprise.

Va., Clintwood.—The Elkhorn Southern Railway is reported to have filed map for its line in Dickinson county, and probably it will be constructed along Crane's Nest River, near Clintwood. This is the extension of the Carolina, Clinchfield & Ohio Railway to Elkhorn City, Ky., and M. J. Caples is vice-president and chief engineer at Johnson City, Tenn.

Va., Norfolk.—An official of the Virginian Railway is quoted as saying that a union station, together with an eight-story office building, will be erected in Norfolk by the Norfolk Terminal Railway Co., which will be chartered, the improvement to cost \$1,000,000; the Norfolk & Western Railway, the Virginian Railway and the Norfolk & Southern Railway are interested. The chief engineers are respectively, C. S. Churchill, Roanoke, Va.; H. Fernstrom, Norfolk, Va., and F. L. Nieh-

olson, Norfolk, Va. The site is at the east end of Main St., on land bought by the Virginian Railway some time ago. An officer says that plans are not yet perfected.

Va., Petersburg.—The Corporation Commission has approved the proposed cut-off of the Norfolk & Western Railway around Petersburg, starting from Estes, three miles west, and meeting the line again at Poe, seven miles east of the city, making the belt about 10 miles long. C. S. Churchill is chief engineer at Roanoke, Va.

Va., Roanoke.—The Norfolk & Western Railway has let contracts as follows: D. M. Flickwir of Roanoke, three-and-one-fifth-mile branch on Indian Creek, Va., above Cedar Bluff, including a tunnel 4700 feet long; Luck Construction Co. of Roanoke, three miles of double track west of Wyoming, W. Va.; Carpenter & Boxley of Roanoke, three and one-half miles of double track west of Wharnccliffe, W. Va.; J. R. Serpell & Co. of Louisville, Ky., three miles of double track, including tunnels, east of Huger, W. Va.; Moorman Bros. Company of Lynchburg, Va., three and one-half miles of double track east of Devon, W. Va.; the Ryan Company of Lexington, N. C., 11 miles of double track west of Davis, O.; E. G. Nave Bros. Company of Portsmouth, O., seven miles of double track east of Picketon, O.; Sturm & Adams of Columbus, O., six miles of double track between Remick and Delano, O.

W. Va., Clarksburg.—The Pocahontas Connecting Railway Co. has filed maps showing its proposed line from Clarksburg to a point on the Clear Fork of Coal River, including a tunnel 250 feet long, thence to Dorothy on the Chesapeake & Ohio Railway; also from Clarksburg, along Paint Creek, including a tunnel 1700 feet long, to Stevens Branch, and thence to connect with the Virginian Railway and the Chesapeake & Ohio Railway. At least 20 miles of line will be constructed. The incorporators include John G. Reading and Robert F. Allen of Williamsport, Pa.; O. P. Fitzgerald, V. L. Black and George S. Couch, Jr., of Charleston, W. Va.

W. Va., Mullens.—Concerning the report that the Virginian Railway contemplates an extension from Elmore, near Mullens, along the Guyandotte River to Huntington, W. Va., an officer says that no such plan is at present proposed.

W. Va., Mullens.—An officer says that plans to revise the line of the Virginian Railway between Surveyor and Sweeneyburg are not in shape to be announced. H. Fernstrom, Norfolk, Va., is chief engineer.

W. Va., Morgantown.—An official of the Buckhannon & Northern Railroad Co. is reported as saying that B. M. Laughead of Morgantown, W. Va., is locating engineer for the line, which will extend along the Monongahela River to Rivesville, W. Va. An officer is quoted as saying that date for construction is not definitely decided, the route beginning on the river at the Pennsylvania boundary and running via Morgantown and Rivesville to Fairmont, W. Va., 35 miles. Several small bridges. S. D. Brady, Parkersburg, W. Va., is chief engineer.

W. Va., Richwood.—The Chesapeake & Ohio Railway, according to a press report, contemplates building an extension along Gauley River to Meadow River. H. Pierce is engineer of construction at Richmond, Va.

STREET RAILWAYS

Ark., Little Rock.—A bill has been introduced in Congress for a bridge over the Arkansas River from Little Rock to Argenta, and Senator James P. Clarke of the Argenta Street Railway Co. is reported interested.

D. C., Washington.—A bill to authorize an extension of the City & Suburban Railway has been introduced in Congress. H. W. Fuller is general manager.

Fla., Pensacola.—The Pensacola Heights Co., says a letter, expects to build a street-car line extension through its suburban residence property. George L. Boucherier is engineer; John N. Day, president; J. F. Rhodes, vice-president; Pattello Campbell, secretary, all at Pensacola.

Sales Agents for Building Brick.

It is announced that Walwright, Jackson & Co., Dickson Bldg., Norfolk, Va., have been appointed sales agents for the output of building brick of the Norfolk Brick & Tile Co., which has recently begun the operation of a plant of 60,000 daily capacity at Jacksontown, about 10 miles from Norfolk. Walwright, Jackson & Co. are well known as handlers of building material of all kinds, including ornamental terra-cotta, pressed brick, enameled, paving and building brick, structural steel and ornamental iron, hollow tile, steel reinforcing, fireproof doors and windows, expanded metal, steel laths, crushed stone, plaster ornaments, roofing, tile, slate and other products.

MACHINERY, PROPOSALS AND SUPPLIES WANTED

Manufacturers and others in need of machinery or supplies of any kind are requested to consult our advertising columns, and if they cannot find just what they wish, if they will send us particulars as to the kind of machinery or supplies needed we will make their wants known free of cost, and in this way secure the attention of manufacturers and dealers throughout the country. The Manufacturers' Record has received during the week the following particulars as to machinery and supplies wanted.

Absorbent Paper.—Hygienic Sheet Co., 403 Shukert Bldg., Kansas City, Mo., wants addresses of manufacturers of absorbent paper.

Acid Machinery.—C. N. Poore, Lakewood, N. C., wants data on manufacture of tannic acid and estimates on necessary machinery.

Bank Fixtures.—R. W. Millsaps, Jackson, Miss., will buy bank fixtures.

Bank Fixtures.—J. W. Degan, Lewisville State Bank, Lewisville, Tex., wants prices on bank fixtures.

Barrel Machinery.—Spencer & Waters, Santiago, Chili, want machinery for manufacturing wine barrels; they invite full details, including duplicate catalogues, prices, discounts, etc., so that intelligent propositions can be made to purchasers of this class.

Barrel and Stave Machinery.—Boston Brick Co., South Boston, Va., wants information on equipment and operation of barrel and stave machinery; also prices on new or second-hand machinery; no engine needed.

Beam Girders.—T. E. Olmstead & Sons, Heber, Ark., want prices on beam girders.

Belting.—Nicolas Georgiades, Constantinople, Turkey, wants addresses of manufacturers of leather and cotton (balata) belting for machinery.

Belting.—T. C. Haughton, Florence, Ala., wants prices f. o. b. cars on second-hand 2½ to 12-inch leather belting; give point shipment.

Boiler.—T. C. Haughton, Florence, Ala., wants prices f. o. b. cars on second-hand 75 or 80-horse-power boiler; give point shipment.

Boiler.—E. L. Deans, Gatesville, N. C., wants four or five horse-power boiler.

Boiler.—Valiant Shingle & Handle Co., S. Wright, president, Vallant, Okla., wants 40-horse-power boiler.

Boilers, etc.—Durham Traction Co., 229 West Main St., Durham, N. C., will buy two 250-horse-power water-tube boilers and pipings for Hamilton 20x40x42 cross-compound condensing Corliss engine, direct connected, etc.

Boiler.—American Metallic Packing Co., Walnut and Clark Sts., Lexington, Ky., wants 25 to 30 horse-power locomotive boiler; on skids; second-hand; state full details.

Boiler.—Maxwell-Knight Iron Co., Butler, Tenn., wants prices on new or second-hand 40-horse-power stationary boiler.

Boiler.—Virginia Box & Column Co., H. L. Lane, president, Altavista, Va., wants new or second-hand 125-horse-power return tubular boiler, 4-inch flues, with stock complete; full front.

Bricks.—G. L. Harley, Pratt and Calvert Sts., Baltimore, Md., wants price on 100,000 face press bricks.

Bricks.—Swain County Commissioners, Bryson City, N. C., want prices on 3000 bricks.

Buckets.—See "Crushing Machinery," etc.

Buckles.—See "Suspenders Materials," etc.

Building Materials, etc.—W. M. Musselwhite, care of Farmers and Merchants' Bank, Reynolds, Ga., wants prices on doors, sash, door sills, transoms, skylights, metal ceiling, metal lath, roofing, lavatories, bathtubs, closets, etc., for two-story 80x150-foot hotel building.

Building Material.—Methodist Episcopal Church South, Center Point, Tex., wants prices on building material.

Canal Construction.—T. A. Aber, assistant engineer, Etowah, Tenn., invites bids for enlarging canal; 10,000 cubic yards excavation.

Cane Furniture Machinery.—Spencer & Waters, Santiago, Chile, want machinery for manufacturing cane furniture; they invite

full details, duplicate catalogues, prices, discounts, etc., so that intelligent propositions can be made to purchasers of this class of equipment.

Canvas.—Nicolas Georgiades, Constantinople, Turkey, wants addresses of manufacturers of canvas for sails.

Carbon Paper, etc.—Nicolas Georgiades, Constantinople, Turkey, wants address of manufacturers of chemical or carbon paper.

Cement.—Frank T. Alexander, Carter, Okla., wants prices on cement.

Chair Machinery.—Morrison H. Caldwell, care of Randolph & Cumberland Railway Co., Carthage, N. C., wants prices on machinery to make cheap chairs.

Clayworking Machinery.—Boston Brick Co., South Boston, Va., wants prices on pug mill.

Concrete-block Machine.—Wm. Smalley, Independence, La., wants new or second-hand 8x16 or 24 concrete-block machines.

Concrete Mixer.—Wm. Smalley, Independence, La., wants new or second-hand mixer.

Corn Mill.—T. F. Matthews & Son, Woodland, Ga., want addresses of manufacturers of corn-milling machinery.

Cotton Goods.—Ashburn Bros. Shirt Manufacturing Co., Franklin, Va., wants addresses of manufacturers of chambray and chevot suitings.

Crushing Machinery, etc.—A. D. Reynolds, 706½ State St., Bristol, Tenn., wants crusher with sieve attached, to pulverize rock sand; also, elevator buckets.

Drill Press.—T. C. Haughton, Florence, Ala., wants prices f. o. b. cars on power drill press to drill holes to 1½ inches; give point shipment.

Electrical Machinery.—Smithville Electric Light Co., Harry Gordon, manager, Smithville, Mo., wants 75-kilowatt three-phase 1100-volt alternating-current generator and 25-kilowatt step-up transformer, 1100 to 11,000 volts.

Electrical Machinery.—J. C. Dumont, Marble Falls, Tex., wants bids on three 100-horse-power and one 750-horse-power generators; three-phase.

Electrical Machinery.—Clem S. Leftwich, Greensboro, N. C., wants prices on electrical equipment for six-mile transmission from hydro-electric plant.

Electric-light Plant.—See "Water-works."

Electric-light Plant.—See "Water-works."

Electric-light Plant.—City of Nashville, Ark., R. Tom Adams, clerk, desires correspondence relative to installation of electric-light plant.

Electric Elevators.—See "Hotels" under Tex., Brownwood.

Electric Motor.—T. M. House, Weldon, N. C., wants prices on new or second-hand electric motor; one-phase, 110 volts, alternating current, two or three kilowatts.

Electric Motor.—Carolina Milling Co., J. W. Bell, president, Spartanburg, S. C., wants second-hand 75 to 100 horse-power motor; direct current.

Electric Wiring and Conduits.—See "Government and State Buildings" under Ga., Rome.

Elevators.—O. L. Williams, Portsmouth, Va., wants two elevators for brick store and stables.

Engine.—Smithville Electric Light Co., Harry Gordon, manager, Smithville, Mo., wants crude-oil engine, 80 to 100 horse-power.

Engine.—T. C. Haughton, Florence, Ala., wants prices f. o. b. cars on second-hand 65 or 70-horse-power slide-valve engine; give point shipment.

Engine.—Valiant Shingle & Handle Co., S. Wright, president, Vallant, Okla., wants 25-horse-power steam engine.

Engine.—Maxwell-Knight Iron Co., Butler, Tenn., wants prices on new or second-hand 25-horse-power stationary engine.

Engine.—E. L. Deans, Gatesville, N. C., wants three or four horse-power steam engine.

Engine.—Hobbs-Ives Equipment & Machinery Co., Box 483, Norfolk, Va., wants second-hand 100-horse-power Corliss engine; give location and description.

Engines, Compressors, etc.—United States Engineer Office, Wheeling, W. Va.—Proposals for building fireproof power-house, installing 100-horse-power gas engines, air compressors, receivers, piping, etc., and drilling well at each of dams Nos. 8 and 11. Ohio River, will be received until March 9. Bids will be considered on entire plant for each dam or for houses, machinery, etc., separate. Information on application; F. W. Altstaetter, Captain Engineers.

Evaporating Machinery.—F. O. Trump, Hydraulic Cider Co., Kearneysville, W. Va.,

wants information and prices on machinery for evaporating apples.

Filter.—J. C. Dumont, Marble Falls, Tex., wants bids on 1,000,000-gallon gravity filter; also prices for 5,000,000 additional capacity.

Flasks.—Farmville Dispensary, Farmville, Va., wants prices on flasks (glass) by carload.

Furniture.—E. C. Hillyer, president Raleigh Country Club, Raleigh, N. C., wants prices on furniture.

Gas Burner.—J. M. Farr, Rocky Ford, Ga., wants addresses of manufacturers of R. G. S. oil-gas burner for heating cook stoves and ranges.

Gasoline Engines.—Anderson-Barnegrow Manufacturing Co., San Jose, Cal., wants list of manufacturers of stationary gasoline engines; uses about carload of engines annually.

Gasoline Engine.—Valiant Shingle & Handle Co., S. Wright, president, Valiant, Okla., wants 15 to 25-horse-power gasoline engine.

Gasoline Engines.—J. W. Walton, Goliad, Tex., wants 3 to 10 horse-power gasoline engines.

Gas-producer Engines.—C. H. Robinson, care of Huntsville Light & Ice Co., Huntsville, Tex., wants prices on gas-producer engines, etc.

Gasfittings.—Southern Equipment Co., 19 Young St., Houston, Tex., wants quantity of fittings for gas line; also meters.

Gauges.—R. E. Bowden, superintendent Keystone Lime Co., Keystone, Ala., wants to correspond relative to having temperature gauges installed on limekilns.

Giants.—Maxwell-Knight Iron Co., Butler, Tenn., wants prices on two California giants (new or second-hand).

Glass Fronts.—Frank T. Alexander, Carter, Okla., wants prices on glass fronts.

Glass Fronts.—T. E. Olmstead & Sons, Heber, Ark., want prices on plate-glass fronts.

Glassware.—See "Flasks."

Grinding Mill.—L. J. Baker, Palmyra, N. C., wants mill for grinding peanut vines for feed.

Handle Machinery.—Valiant Shingle & Handle Co., S. Wright, president, Valiant, Okla., wants prices on handle machinery.

Handle Machinery.—Wisconsin Handle Co., Sturgeon Bay, Wis., wants second-hand lathe, rammers, boring and chucking machine for broom handles.

Heating Apparatus.—See "Government and State Buildings" under Ga., Rome.

Heating Plant.—See "Hotels," under Tex., Brownwood.

Heating Plant.—Southwestern Telegraph & Telephone Co. will receive bids until February 10 at office of Sanguinett & Staats, architects, Fort Worth, Tex., for heating plant, plumbing and wiring three-story and basement telephone building; certified check for \$200.

Heating Plant.—E. G. Kalbfleisch, Augusta, Ga., will receive bids until February 11 for installation of steam-heating and hot-water supply system in new fire-department headquarters building; plans and specifications by G. Lloyd Preacher, architect and engineer, 403-404 Dyer Bldg., Augusta, Ga., at whose office plans and specifications can be seen.

Hot-water Supply System.—See "Heating Plant."

Ice and Cold-storage Machinery.—Rollin Dockery, Murphy, N. C., wants cold-storage and ice-plant machinery.

Ice Plant.—See "Pumping Plant."

Ice Plant.—Jos. E. Bowen, 901 Bank of Commerce Bldg., Norfolk, Va., wants ice plant.

Lockers.—E. C. Hillyer, president Raleigh Country Club, Raleigh, N. C., wants prices on lockers.

Levee Construction.—A. Kaplan, Crowley, La., invites bids on construction of 60,000 cubic yards of levee work, five feet high, on Dry Prairie, near Gueydan, La.

Lumber.—C. I. Jones, Muscogee Lumber Co., Columbus, Ga., wants lumber.

Lumber.—J. C. Batschelet, Derry, Pa., wants prices on oak and hemlock dimension lumber; also, on white pine, hemlock, poplar and other house lumber (boards, plank, etc.).

Leather Strips.—Bensussan, Sides & Co., Salonica, Turkey, want agency for leather-strip manufacturers.

Manhole-frame Castings.—Baltimore (Md.) Board of Awards will open bids February 16 for furnishing manhole-frame castings for use of Electrical Commission; Charles E.

Phelps, Jr., chief engineer, City Hall; certified check, \$200.

Machline Tools.—J. W. Walton, Goliad, Tex., wants trip-hammer and planer.

Metal Ceilings.—Frank T. Alexander, Carter, Okla., wants prices on metal ceilings.

Metal Ceilings.—See "Building Materials, etc."

Metal-Working Machinery.—Charlotte Sign Works, Charlotte, N. C., in market for sheet metal-working machinery.

Mirror Coating and Appliances.—W. L. Goodhart, Lebanon, Tenn., wants tinfoil and mercury for mirror coating; also appliances used in manufacturing mirrors. (Glass and frames not needed.)

Oil Mill.—Arey Oil & Fertilizer Co., Salisbury, N. C., will let contract for three-press oil mill February 22.

Paper Boxes.—Success Novelty Co., Weldon, N. C., wants prices on paper boxes.

Paper Bottles.—Adolphus Blair, 811 Mutual Bldg., Richmond, Va., wants addresses of manufacturers of paper milk bottles.

Paving.—J. B. Winslett, City Secretary, Dallas, Tex., will open bids February 11 for improvement of East Side Ave.; each bidder to bid separately on following materials: Bitulithic pavement on concrete foundation; bitulithic pavement on bituminous foundation; rock asphalt on concrete foundation; vitrified brick or block paving on concrete foundation; concrete curbs; concrete gutter; combination concrete curb and gutter; certified check \$450.

Paving.—Board of Control, Norfolk, Va., will open bids February 15 for regulating and repaving with some smooth material parts of Granby and Chapel Sts.; bids to be made for each street separately; specifications and other information may be obtained on application to City Engineer; certified checks for 5 per cent. of amount bid; W. T. Brooke, City Engineer.

Paving.—Board of Public Works, L. G. Ayward, clerk, Pensacola, Fla., will open bids March 10 for construction of 635,000 square feet of concrete sidewalks; specifications and blank forms of proposal can be obtained at office of L. Earle Thornton, City Engineer, 203 City Hall; certified check, \$500.

Paving.—Joe Baker, Mayor, and City Council, Dothan, Ala., will open bids March 7 for laying 14,000 square yards pavement; bids invited on wood blocks, brick, bitulithic and asphalt; certified check, \$2000; plans may be seen at office of R. W. Lisenby, City Clerk, or J. B. McCrary & Co., 1311-15 Empire Bldg., Atlanta, Ga., and copies of specifications, forms, etc., may be obtained from either.

Paving.—Bob Parman, City Clerk, Oklahoma City, Okla., will open bids February 21 for grading, paving with sheet asphalt, etc., of 16th st., total width of 30 feet from curb to curb, and alley between 10th and 11th Sts., in Oklahoma City; also east and west alley in Block 47, Original Plat, and east and west alley in Amended Plat of Block 6, Summer's Place Addition, with vitrified brick; plans and specifications on file in office of City Clerk; certified check, 3 per cent. of bid.

Paving.—Robert Tait, City Treasurer, Montgomery, Ala., will receive bids until March 7 for paving roadway on following streets with asphalt, bitulithic, brick, blome granite, mineral rubber or wood-block pavement, together with necessary curbing, headers, storm-water sewers, etc., in connection: Monroe, Bibb, Wilkerson, Mobile and Maury Sts. and intersection of Clayton and Goldthwaite Sts.; also for paving sidewalks on following streets with hexagon block or Schilling pavement, together with necessary granite curbing, storm sewers and brick walls, etc., in connection: Both sides of Jeff Davis Ave., from Cleveland to Holt St.; another section of Maury St., Clitheral and Union Sts., and until same date for improving Jeff Davis Ave., from Holt to Oak St., by grading, curbing and necessary storm-water sewers, gutters, etc., in connection. All of above work to be in accordance with plans, profiles and specifications on file in office of the City Engineer; certified checks to accompany each bid in amount as shown in specifications on file in the office of the City Engineer.

Penny Slot Machines.—E. M. Richardson, 116 Salem avenue, Roanoke, Va., wants addresses of manufacturers of penny arcade machines.

Pier Construction.—Proposals will be received at Bureau of Yards and Docks, Navy Department, Washington, until March 5 for constructing torpedo-boat piers, coaling pier and railroad track at United States Navy-yard, Charleston, S. C. Plans and specifications can be obtained on application to bureau or to Commandant of Navy-yard named. R. C. Hollyday, chief of bureau.

Pipe.—Baltimore (Md.) Board of Awards will receive bids until February 16 for furnishing for Electrical Commission 200,000 feet of special duct pipe, including bends, in accordance with specifications issued by Charles E. Phelps, Jr., Chief Engineer of Commission; certified check, \$200; fair samples of pipe and bends to be submitted at least five days before date of opening bids.

Pipe-cutting Machinery.—T. C. Houghton, Florence, Ala., wants prices f. o. b. cars on set pipe-cutters and threading outfit; give point shipment.

Piping.—Maxwell-Knight Iron Co., Butler, Tenn., wants prices on 700 feet 6 inches and 300 feet rethreaded wrought pipe.

Piping.—See "Boilers, etc."

Piping.—J. C. Dumont, Marble Falls, Tex., wants bids on about 4000 feet 18-inch and same quantity 24-inch cast-iron pipe.

Planer.—Virginia Box & Column Co., H. L. Lane, president, Altavista, Va., wants new or second-hand 4-side short-bodied planer.

Plumbing.—See "Heating Plant."

Plumbing and Gasfitting.—See "Government and State Buildings" under Ga., Rome.

Pulverizer.—Carolina Mica and Milling Works, Penland, N. C., wants name of manufacturers of automatic pulverizer.

Pump.—Toccoa Furniture Co., Toccoa, Ga., wants second-hand boiler-feed pump.

Pump.—I. J. Shumate, Cooper, Tex., wants pump and fittings for engine and boiler.

Pump.—T. C. Houghton, Florence, Ala., wants prices f. o. b. cars on steam pump; give point shipment.

Pumps.—J. C. Dumont, Marble Falls, Tex., wants bids on two 6,000,000-gallon pumps, centrifugal compound, to elevate water 300 feet; direct connected to motor or belt driven.

Pumps.—Maxwell-Knight Iron Co., Butler, Tenn., wants prices on new or second-hand compound duplex pump, to elevate 700 to 800 gallons water 200 feet per minute through 6-inch pipe and two nozzles; also, 3-inch discharge centrifugal belt-driven pump.

Pumps.—Orleans Drykiln & Stacker Co., 401 Hibernia Bank Bldg., New Orleans, La., wants prices on hydraulic pumps.

Pumping Plant, etc.—Office Constructing Quartermaster, Fort Sam Houston, Tex.—Proposals will be received until March 2 for construction of pumping, ice and ice-storage plant and concrete reservoir at Fort Sam Houston; bidders to state names of manufacturers whose goods they propose to furnish; plans and specifications may be seen in above office and of depot quartermaster, St. Louis, Mo.

Rails.—E. A. Poe Brick Co., Fayetteville, N. C., wants delivered price on 480 linear feet of 30-pound second-hand rails, also necessary fastenings.

Rails.—Jos. E. Bowen, 901 Bank of Commerce Bldg., Norfolk, Va., wants light rails for Virginia and North Carolina delivery.

Rails.—Mills Campbell Lumber Co., Newbern, N. C., wants to lease or rent 10 to 15 miles of 35 or 40-pound rail, new or relaying.

Refrigerator.—E. C. Hillyer, president Raleigh Country Club, Raleigh, N. C., wants prices on refrigerator.

Restaurant Equipment.—J. B. Moffett, Hope Mills, N. C., wants prices on equipment for lunch counter and restaurant.

Road Construction.—Office of Constructing Quartermaster, Walter Reed General Hospital, Washington, D. C. (Takoma Substation).—Proposals will be received until March 1 for construction of macadam roads, concrete walks, etc., at Walter Reed General Hospital, Washington, D. C.; information on application; plans and specifications may be seen at above office; deposit of \$13 required for plans loaned; envelopes containing proposals should be indorsed "Proposals for Roads, Walks, etc." and addressed to Capt. H. L. Pettus, Constructing Quartermaster.

Road Construction.—Carroll County Commissioners, George W. Brown, president, Westminster, Md., will open bids February 14 for grading and macadamizing one mile of Uniontown Rd. between New Windsor and Uniontown; proposals to be made on blanks furnished by State Geological Survey Commission, to be obtained through its office in Baltimore, Md.; certified check, \$200.

Road Construction.—Hillsboro County Commissioners, E. J. De Vane, chairman, Tampa, Fla., will open bids March 1 for hard-surfacing of 31st St. in Gary, distance about one-quarter mile; material to be used, phosphate screenings; macadam to be 15 feet wide, 8 inches deep in center, 5 inches on sides when thoroughly rolled; hard-surfacing of four miles of road from Plant City to Polk county line; macadam to be 12 feet

wide, 8 inches deep in center and 4 inches on sides; material from rock pit near Coronet phosphate mines, or other material equally as good.

Road Materials.—Valley Turnpike Co., Vaucluse, Va., wants addresses of dealers in road materials.

Rolling Partitions, etc.—Methodist Episcopal Church South, Center Point, Tex., wants prices on rolling partitions and folding doors.

Roofing.—Methodist Episcopal Church South, Center Point, Tex., wants prices on fireproof roofing.

Safe, etc.—R. W. Millsaps, Jackson, Miss., will buy safe and vault.

Safe, etc.—F. M. Schilling, Burk Burnett, Tex., wants prices on safe, vault and bank fixtures.

Sawmill.—Blackburn & Jackson, Rose Hill, R. F. D., N. C., wants complete equipment for sawmill with daily capacity of 20,000 feet lumber; to include boilers, engines, edgers, cut-off saws, etc.

Screens.—Fort Monroe, Va.—Proposals will be received until March 3 for wire door and window screens for eight new buildings at Fort Monroe, Va.; bidders to state name of manufacturers supplying material and submit corner sample of screen with bid; information on application; address Ernest R. Tilton, Captain and Quartermaster, U. S. Army, Constructing Quartermaster.

Screen.—Maxwell-Knight Iron Co., Butler, Tenn., wants prices on one revolving screen for log washer.

Screens.—See "Crushing Machinery," etc.

Screens.—Morrison H. Caldwell, care of Randolph & Cumberland Railway Co., Carthage, N. C., wants addresses of manufacturers of machinery to sift and grade pebble ballast and gravel into various sizes.

Sewerage and Drainage Systems.—See "Water-works, etc."

Sewer Construction.—City of San Antonio, Tex., will open bids February 12 for laying 35,000 feet of sewer mains in districts Nos. 12 and 13; specifications on file in office of City Engineer.

Sewer Construction.—Board of Sewerage Commissioners, H. K. Gilbert, chairman, Florence, S. C., will open bids March 3 for construction of sanitary sewer system; 19 miles of pipe sewers from 8 to 18 inches diameter and disposal plant, complete; certified check, \$5000; plans and specifications on file at office of City Clerk, Florence, and specifications mailed upon application to H. S. Jaudon, Box 582, Savannah, Ga., engineer.

Sewer Construction.—Bob Parman, City Clerk, Oklahoma City, Okla., will open bids February 14 for construction of lateral sewers in certain portions of Putnam Heights Addition, Central Park Addition, Ross-Mann Addition, Grand View Addition, Central Northwest Addition, West View Heights, etc.; plans and specifications on file in office of City Clerk; each district to be bid on separately; certified check for 3 per cent. of bid.

Shafting, etc.—T. C. Houghton, Florence, Ala., wants prices f. o. b. cars on 60 feet 2 1/2" shafting; hangers to match; give point shipment.

Soap Machinery.—Arthur E. Gasch, Peru, W. Va., wants information on manufacture of soap and prices on soap machinery.

Steel.—United States Engineer Office, Wheeling, W. Va.—Proposals for furnishing and delivering structural steel forgings steel and iron castings, bolts, etc., for dam No. 26, Ohio River, will be received until February 17; information on application; F. W. Altstaetter, Captain Engineers.

Steel I-Beams.—Frank T. Alexander, Carter, Okla., wants prices on steel I-beams.

Stone Planer.—Missouri Stone & Construction Co., Carthage, Mo., wants small second-hand stone planer.

Suspenders Materials, etc.—Manufacturer, Box 717, Columbus, Ga., wants addresses of manufacturers of elastic webbing; also, of plated findings and buckles for making men's suspenders and garters.

Telephone System.—See "Hotels," under Tex., Brownwood.

Tobacco Machinery.—S. E. Rice Tobacco Co., Greenville, Ky., wants prices on smoking-tobacco machinery.

Tramway.—A. D. Reynolds, 706 1/2 State St., Bristol, Tenn., wants estimates on one mile aerial wire rope tramway, with capacity to load three to five cars white sand daily, on mount about 1000 feet elevation above railroad; no hollow to cross.

Typewriter Ribbons.—Nicolas Georgiades, Constantinople, Turkey, wants addresses of manufacturers of typewriter ribbons.

Water-works.—City Council Lafayette, Ga., invites proposition for corporations, etc., for installation of water-works and electric-light plant; C. J. Hammond, City Recorder.

Water-works.—City of South Jacksonville, Fla., invites proposals for electric-light and water-works franchises; R. V. Rogers, City Clerk.

Water-wheels.—J. C. Dumont, Marble Falls, Tex., wants bids on five turbines, 750 horsepower each, direct-connected, upright, 65-foot head.

Water-works.—Board of Control (C. H. Brues and Thomas M. Haskins), Wheeling, W. Va., will receive bids until February 14 for furnishing, delivering and erecting at water-works plant of pump-house, pumping pit, river intake line and crane runways, with all fixtures and appurtenances, complete; also for construction, delivery and erection at pumping station of pump-house, pumping pit, river intake line and crane runways as shown on plans and specifications on file in office of Board of Control. Bids will be received: First, for entire work as shown on plans and specifications; second, for well from foundation of said well to bottom of coping, and for river intake line; third, for building for pump-house from bottom of coping of well to entire completion of building and for crane runways; bids to be made on blank forms of proposal attached to specifications; all bids in accordance with first proposition to be accompanied by certified check for \$3000; with second proposition by certified check for \$1500, and with third proposition by certified check for \$1500; bonds, \$50,000 and \$25,000, respectively; copies of plans and specifications can be obtained on application to Board of Control or to J. Richard Kommer, consulting engineer, 1112 House Bldg., Pittsburg, Pa., on depositing \$25 with Board of Control; Charles C. Schmidt, Mayor.

Water-wheels.—Clem F. Leftwich, Greens-

boro, N. C., wants prices on turbines for hydro-electric plant.

Water-works, etc.—Office Constructing Quartermaster, Fort Sill, Okla.—Proposals will be received until March 7 for water distributing, sewerage and drainage systems at Fort Sill; specification, blue-prints and further information furnished on application to undersigned; certified check for \$5 required to insure return of plans, etc.; to be addressed to Capt. David L. Stone, Constructing Quartermaster.

Well-drilling Machinery.—M. F. Harrell & Sons, Rockport, Ky., will want deep-well drilling machinery and supplies.

Windows.—Methodist Episcopal Church South, Center Point, Tex., wants prices on windows.

Window Glass.—Swain County Commissioners, Bryson City, N. C., want prices on window glass.

Wiring.—See "Heating Plant."

Webbing.—See "Suspenders Materials," etc.

Woodworking Machinery.—See "Planer."

Woodworking Machinery.—See "Handle Machinery."

Woodworking Machinery.—Acker Building & Repair Co., Abbeville, S. C., in market for new or second-hand single surfacer (24-inch) for light cabinet work and light 3 or 4-side planer and matcher; second-hand.

Woodworking Machinery.—See "Handle Machinery."

Woodworking Machinery.—T. C. Haughton, Florence, Ala., wants prices f. o. b. cars on four large hand lathes for colonial column work, without frames; railroad cut-off saw, on frame, with miter; 40-inch swing saw, complete; T. & L. pulleys; planer to take 4-inch stock; give point shipment.

Woodworking Machinery.—C. I. Jones, Muscogee Lumber Co., Columbus, Ga., wants machinery for lumber plant.

welding machines up to their full capacity, and the shops are lighted by mercury lights supplied by a direct-current generator. President Neil Macneale of the company states that, owing to the number of orders received during January, it will be necessary to operate a night force in order to make the deliveries promised.

Eaton & Burnett Business College.

As an intermediary between the student and the business man the modern business college plays an important part in the commercial life of a community. This is exemplified by the fact that many industrial enterprise managers prefer to engage their employees, particularly for office work, from those who have had training in business and office practice. Among the prominent business schools, many of whose former students are filling important and responsible positions, is the Eaton & Burnett Business College, 9-11 West Baltimore St., Baltimore, Md. This college is well equipped with an efficient corps of instructors and offers commercial courses concerning which it invites consideration.

Cement Interests Merge.

The consolidation of large and important cement interests has recently been effected by the merger of the Alpha Portland Cement Co. and the Cement Manufacturing Co. at the offices of the Alpha company at Alpha, N. J. The new company will be known as the Alpha Portland Cement Co., and, according to the terms outlined in letter to the stockholders, there will be issued to the stockholders of the two companies stock to the extent of \$10,000,000 pro rata. Of this \$2,000,000 will be 7 per cent. cumulative preferred and the remainder common stock. This increase in the capital stock, it is said, will be in the nature of the distribution of profits which have accrued during the past 18 or 20 years. The general offices of the Alpha Portland Cement Co. are located at Easton, Pa., and it operates cement plants at Alpha, N. J.; Martin's Creek, Pa.; Manheim, W. Va., and at Cementon, near Catskill, N. Y. Its officers are A. F. Gerstell, president; J. M. Lockhart, vice-president; G. S. Brown, secretary and treasurer, and F. G. McKelvey, assistant secretary.

TRADE LITERATURE.

The Budget for February.

The Budget for February, a publication by the Maryland Casualty Co., Baltimore and North Sts., Baltimore, Md., has been issued for February. This magazine is intended to lend assistance to those who are interested in casualty insurance, and contains much information along this line.

About Buckeye Lamps.

To central stations which have difficulty with the quality or service of its lamps the Buckeye Electric Co., Cleveland, O., suggests a trial order of Buckeye lamps. This company manufactures tungsten, carbon, gem and tantalum lamps for different kinds of service and has issued a unique folder containing information regarding them.

The Burroughs for January.

The Burroughs, a publication issued by the Burroughs Adding Machine Co., Detroit, Mich., is being circulated for January. This magazine contains a number of interesting articles, prominent among which is one by E. St. Elmo Lewis, advertising manager of the company, outlining advertising plans for 1910.

The Locomotive World.

The Locomotive World, published monthly by the Franklin Type & Printing Co., 210 North Elizabeth street, Lima, O., has been issued for January. This publication is devoted to the interests of private users of locomotives and equipment for logging, mining, plantations and industrial railroads. It contains a number of timely and interesting articles.

Make Your Own Light.

A folder which is being distributed by the Triumph Electric Co., Cincinnati, O., illustrates the American Blower Co.'s vertical self-oiling steam engine direct connected to a Triumph Electric Co.'s generator for making electricity. It also presents a comparison of isolated lighting plant cost with central station service, showing that the former effects a saving of about 25 per cent.

Buffalo Fire Pumps.

Illustrating and describing several types of Buffalo fire pumps is a folder which has been issued by the Buffalo Steam Pump Co., Buffalo, N. Y., which manufactures these products. Among them are the Buffalo centrif-

gal underwriters' fire pump, tank or light service pump, four-stage turbine pump direct connected to electric motor, duplex underwriter pump and others.

The Value of the Flooded System.

Bulletin I. a. has been issued by the Vilter Manufacturing Co., Milwaukee, Wis., manufacturer of ice and refrigerating machinery, Corliss engines, etc. This publication is devoted to a paper on "The Value of the Flooded System and Its Application to Ice-making and Refrigerating Plants," read by H. Rassbach before the American Society of Refrigerating Engineers at its meeting at Chicago, Ill., on October 18 and 19, 1909.

"A B C" Exhaust Fans.

Bulletin No. 271 issued by the American Blower Co., Detroit, Mich., illustrates the "A B C" cast-iron exhaust fan manufactured by this company. This fan is reversible and interchangeable, and can be bolted to the floor, wall, post or ceiling. The company has also issued bulletin No. 272, which illustrates and describes the Dixie exhaust fan, which is said to be substantially constructed, having cast-iron sides, steel wheels, long bearings, the shortest possible overhanging shaft and perfectly free inlet.

Proof in Its Universal Use.

Engineers and contractors who are confronted with hauling and digging problems are invited to correspond with the Hayward Company, 50 Church street, New York, whose staff of engineers will advise with them as to the best devices to employ. This company manufactures the Hayward bucket, and claims that it does its work speedily and, because of its durability, effects a great saving to the user. The proof of its efficiency, it states, lies in its universal use, and catalogue No. 36, illustrating and describing it, will be mailed upon request.

Chloride Accumulators on Railroads.

Bulletin No. 118, issued by the Electric Storage Battery Co., general offices and plant Allegheny Ave. and 19th St., Philadelphia, Pa., illustrates and describes the installation of chloride accumulators on the systems of the Otsego & Herkimer Railroad Co. for regulating the load on several power units working separately or in combination. This company has furnished regulating apparatus for controlling fluctuations of load on alternating current circuits in different battery installations covering a great variety of conditions, and will submit reports and estimates upon request.

The "7-League" Boot.

The "7-League" sewed leather soled rubber boots and shoes are illustrated in catalogue No. 20, issued by the Mulconroy Company, 722 Arch St., Philadelphia, Pa. These products are claimed to be manufactured from the best material it is possible to obtain, the rubber uppers being made by one of the most reliable manufacturers of rubber boots, while the leather bottoms are attached in the factory of the Mulconroy Company. This company also manufactures piston packings of various kinds, mechanical rubber goods, railway, mine and mill supplies, molded articles, etc.

The Gauntt Concrete Mixer.

Aiming to design and construct a machine whose use will effect the largest possible saving in labor and give the greatest amount of service, the F. G. Gauntt Manufacturing Co., Fort Wayne, Ind., has constructed a concrete mixer which is claimed to be entirely of iron and steel, with dust-protected roller bearings, accuracy in measurements, rapid and easy adjustments of proportions and susceptible of being quickly repaired. This machine consists essentially of feed hoppers, automatic proportioning feed worms and the mixing cylinder. It is illustrated and described in catalogue No. 6, which the company is distributing.

Autoline for Automobiles.

Of much concern to those interested in automobiles, whether owner, chauffeur or garage keeper, is the subject of lubrication. Many people experience continuous trouble in the operation of their machines because of the use of wrong oil, resulting in inferior lubrication. An oil which is claimed to be manufactured with great care and particular attention to each type of motor, giving almost perfect lubrication, is Autoline. This product is manufactured by the William C. Robinson & Son Company, 1501-7 Thames street, Baltimore, Md., and is described in a unique pamphlet which the company is distributing.

For Water-works and Sewerage Systems.

A pamphlet recently issued by the Lehigh Portland Cement Co., Allentown, Pa.; Lu-

INDUSTRIAL NEWS OF INTEREST

Wants Electrical Plants.

Owners offering small electrical plants for sale in the South are invited to address No. 571, care of Manufacturers' Record.

The Texas Novelty Co.

A partnership has been formed in Houston, Tex., by James W. McKee and O. S. Cummings under the title of the Texas Novelty Co. for the purpose of handling manufactured specialties, novelties and patented articles. A force of salesmen will be put in the field under the company's supervision.

Brick Plant for Sale.

The lands, buildings, machinery, stock, etc., comprising the complete plant of the Cambria Brick Co. will be offered for sale on February 21. This plant is located at Whiteford, Harford county, Md., and will be offered at public auction on the premises. For particulars address the Grotjan-Lobe Company, auctioneers in charge, 223 West Baltimore St., Baltimore, Md.

Another Order for Oliver Cars.

Another order for cars for the Panama Canal work has been received by the William J. Oliver Manufacturing Co. of Knoxville, Tenn. This is for 100 dump cars of 12 yards capacity each, and is in addition to the one recently received for 250 cars, which are to have a capacity of 19 yards. It is stated that more than 1000 Oliver dump cars have been furnished to the Canal Commission, and more orders are expected before the work is completed.

Perfects Its Organization.

The Kellastone Paving & Public Utilities Co. of Terre Haute, Ind., held a meeting for organization January 28, at which time David L. Watson was elected president, Edward F. Kellie vice-president, Joseph H. Clay treasurer, James B. Cahill secretary and assistant treasurer, and E. B. Schmidt chief engineer. The company will manufacture a paving block which it believes to have unusual wearing qualities.

The Puritan Cordage Mills.

The Puritan Cordage Mills, Louisville, Ky., moved some months ago (as was mentioned in the Manufacturers' Record) to 1564 Story Ave. Subsequently the company bought the entire property, which is 110x400 feet, with two floors and a basement, giving a floor space of 37,000 square feet. Then the company installed 59 new braidiers to materially increase output, so that the Puritan is now said to be the second largest sash-cord mill in the country. As an evidence that the company is meeting a large demand, it may

be said that between the first of September, 1909, and the middle of January, 1910, it shipped 400,000 pounds of finished cordage without receiving a single complaint as to quality or shipments. One of the cardinal principles of the company is to make each shipment exactly at the specified time. Charles T. Wolfe is president.

Trump Turbines in Iowa.

C. Miller & Sons of Clermont, Iowa, have secured a franchise to furnish their city with electric-light and power, and to facilitate their operations will install Trump turbines for driving the electric machinery. It is stated that this is the third important hydro-electric development in Iowa in which the Trump turbines have been employed. This equipment is manufactured by the Trump Manufacturing Co. of Springfield, O.

Establishes Industrial Department.

For the purpose of prosecuting in a general way the work of locating industries along its lines in a much more aggressive manner than heretofore the Missouri, Kansas & Texas Railway system has established an industrial department. R. W. Hockaday, general freight and ticket agent of the company at Parsons, Kans., was transferred to St. Louis on February 1 as industrial commissioner to assume charge of the department. T. S. Peeler, the industrial agent in Texas, will continue his work in that State.

Some Calendars for 1910.

The Manufacturers' Record has received calendars for 1910 from the following: Vulcanite Portland Cement Co., Philadelphia; Huttig Roofing Manufacturing Co., Muscatine, Iowa; Whitin Machine Works, Whitinsville, Mass.; Macomber & Whyte Rope Co., Chicago; H. M. White, Dillwyn, Va.; De Laval Separator Co., New York; Milton Manufacturing Co., Milton, Pa.; Lehigh Portland Cement Co., Allentown, Pa.; Standard Portland Cement Co., Birmingham, Ala.; Cardwell Machine Co., Richmond, Va.; Fort Worth Cotton Oil Co., Fort Worth, Tex.; E. E. Titus, manufacturer veneer-basket machinery, etc., Petersburg, Va., and Litcher & Moore Lumber Co., Orange, Tex.

Removes from Toledo to Cincinnati.

The Toledo Electric Welder Co. announces that it has moved its offices from Toledo to its new factory building at Knowlton and Langland streets, Northside, Cincinnati, O. Its factory is equipped with the most modern tools for the construction of its welding machines, and the entire plant is motor driven. A 75-kilowatt single-phase alternating-current generator supplies the power for testing its

dianapolis, Ind., and other cities, is devoted to an article illustrating and describing the Mills water-works, sewers and fountains at Thornton, Ind. The system and fountains were presented by General Miles to the citizens of Thornton, the work of construction beginning about May, 1909, and being finished in September. Lehigh Portland cement was used throughout the entire work, in the reservoir, in making all joints in the sewer line, manhole construction and in all abutment and foundation work. It was also used for the exacting work required on the fountains.

Worthington Turbine and Centrifugal Pumps.

Included in industrial literature recently issued are bulletins W-175 and W-176 issued by the International Steam Pump Co., 115 Broadway, New York. Bulletin W-175 illustrates and describes the Worthington turbine pumps for high head service and Bulletin W-176 illustrates and describes type D centrifugal pumps for low head service. Both of these products are manufactured by the International Steam Pump Co., and represent its latest designs in pumping machinery of the types mentioned. The illustrations show them as arranged for operating by electric motor, direct connected steam engines or belt driven by gas engines or other forms of motive power.

The Brill Magazine.

Among recent publications is the Brill Magazine, which has been issued for January. This publication is issued by the J. G. Brill Company, car manufacturer, Philadelphia, Pa., and contains a number of interesting articles and illustrations. These include a sketch of Gen. George H. Harris, second vice-president of the Washington (D. C.) Railway & Electric Co.; an article describing conditions which govern the type of car for city service in Norfolk; a description of 18-passenger omnibuses, which were recently shipped from the plant of the J. G. Brill Company to Baeck & de Montluzin, New Orleans, La.; a description of two types of coal and ash cars and of passenger cars for the American Railroad of Porto Rico, and double-deck cars for Natal, South America, as well as other equipment.

For a Florida Special.

Capt. O. I. Frisbee, chairman of the Commercial Development Committee of Portsmouth, N. H., writes to the MANUFACTURERS' RECORD:

"In your issue of January 20 you refer to the unsatisfactory names for the tourist special trains for Florida, and you suggest the name of 'Orange Blossom' for a Florida tourist train. That is an ideal name. The writer once published an advertising paper in Florida by that name and received a shower of compliments in the choice of the name. I would like to suggest the name of a train that some day in the near future will run to Florida through to Tampa, the 'Oriental Limited.' I believe that Florida will be the great highway between the Occident and the Orient. She holds a unique position among the States. May the trade of nations echo on her soil and may Tampa become what Tyre of old was to the Mediterranean coast, the metropolis, the New York of the South."

For Southern Branch.

[Special Cor. Manufacturers' Record.]

Winston-Salem, N. C., February 7.

The Standard Mirror Co. of Pittsburg, Pa., has decided to erect a branch plant in this city in order to be near some of its largest customers, and a lot has been purchased in the northern part of the city for the purpose of erecting a building, which will be 150x130 feet and one story high. The contract for drawing the plans have already been let, Mr. Frank Wineski, Southern manager of the concern, coming here to make the necessary arrangements. The firm will give employment to about 50 employees at first.

CLARENCE REESE SCROGGS.

"The Farmer Is King."

Frank F. Fagan, cashier Farmers and Merchants' Bank, Williamston, N. C., writes to the MANUFACTURERS' RECORD:

"The financial condition of the farmers and people in general in this section is

good. There is not more than 50 per cent. of the indebtedness among the farmers that there was five years ago. They are carrying a good deal of money in the savings department of the local banks and lending out on gilt-edge security. There is no 'wild-cat' speculation among the people of our section. The farmers are improving their land and are doing scientific farming; in fact, the farmer is king."

It is announced that Messrs. T. L. Clark and E. C. Sturgis of Denison have bought for more than \$1,000,000 the Gunter ranch of more than 72,000 acres, lying in Duval, McMullen and La Salle counties, Tex., and propose to colonize it in 40-acre tracts.

The Chamber of Commerce of Oklahoma City, Okla., is circulating an attractively illustrated pamphlet of 60 pages entitled "The Center of Commerce in the Land of Promise," telling the interesting story of Oklahoma's progress and showing the great range of products of the forty-sixth State.

FINANCIAL NEWS

The MANUFACTURERS' RECORD invites information about Southern financial matters. Items of news about new institutions, dividends declared, securities to be issued, openings for new banks, and general discussions of financial subjects bearing upon Southern matters.

Review of the Baltimore Market.

Office MANUFACTURERS' RECORD.

Baltimore, Md., February 9.

The Baltimore stock market was dull during the past week. In the trading United Railways common sold at 12½; do. Trust certificates, 13¼ to 12¾; do. incomes, 59 to 58; do. funding 58, 83¾ to 83; last sale at 83½; do. do. scrip, 84 to 83; United 4s, 86½ to 86¼; United Light & Power 4½s, 92; Consolidated Gas, Electric Light & Power common, 49; do. preferred, 86½ to 85; Consolidated Gas 6s, 100¼; Seaboard Company common, 25½ to 22; last sale at 23½; do. second preferred, 45 to 43½; last sale at 45; Seaboard 4s, stamped, 83¾ to 82¾; do. three-year 5s, 99½; do. 10-year 5s, 99½; Consolidated Cotton Duck common, 5½; Mt. Vernon-Woodberry Cotton Duck 5s, 75½ to 74; last sale at 74¾.

Bank stock sold as follows: Mechanics', 28; Bank of Commerce, 30¼; Citizens', 39 to 38¾; First National, 138; Merchants', 178.

International Trust sold from 148 to 145; American Bonding, 75 to 77; Maryland Casualty, 94; Baltimore Trust, 316 to 315; Fidelity & Deposit, 153; United States Fidelity, 139.

Other securities were traded in thus: Atlantic Coast Line of Connecticut warrants, 160 to 170; do. do. 5-20s, 91½ to 91; Atlantic Coast Line consolidated 4s, 95½ to 95¾; do. convertible debenture 4s, 100 to 99; do. new 4s, certificates, 100¼; Fairmont & Clarksburg Traction preferred, 75; do. 5s, 96¼; Northern Central Railway stock, 126 to 124½; last sale at 125; Consolidation Coal, 110½ to 110; Memphis Street Railway 5s, 100; Macon Railway & Light 5s, 95¼; Baltimore Traction 5s, 109; Houston Oil common, 7½ to 6¾; last sale at 7; Maryland Electric 5s, 98¾ to 98½; Maryland Telephone 1st 5s, 99½; Baltimore City 5s, 1916, W. L., 105; do. 3½s, 1940, 96; do. do. 1930, 96; do. 4s, 1926, 101; Georgia Southern & Florida 5s, 108½; Virginia Electric Railway & Development 5s, 102½; Western Maryland 4s, 85; George's Creek Coal & Iron, 121 to 122½; Newport News & Old Point 5s, 93½; Seaboard & Roanoke 5s, 106½; Norfolk Railway & Light 5s, 98½ to 99; Norfolk & Portsmouth Traction 5s, 82¼; Georgia Southern & Florida second preferred, 78; Norfolk Railway & Light stock, 22¼; Merchants & Miners' Transportation Co., voting trust, 87; Georgia, Carolina & Northern 5s, 104¾; Maryland & Pennsylvania incomes, 60; Western North Carolina 6s, 106½.

SECURITIES AT BALTIMORE.

Last Quotations for the Week Ended February 9, 1910.

Railroad Stocks.	Par.	Bid.	Asked.
Atlantic Coast Line.....	100	124	124
Atlantic Coast of Conn.....	100	245	255
Fair & Clarksburg Trac. Com.....	100	29½	26
Georgia Sou. & Fla.....	100	28	28
Georgia Sou. & Fla. 1st Pfd.....	100	90	90
Georgia Sou. & Fla. 2d Pfd.....	100	75	87

Seaboard Company Common.....	100	23½	23½
Seaboard Company 2d Pfd.....	100	44	45
Southern Railway.....	100	27½	27½
United Rys. & Elec. Co.....	50	12½	13½
Western Maryland.....	100	49½	51

Bank Stocks.			
Citizens' National Bank.....	10	38	39
Commercial & Far. Nat. Bk.....	100	75	80½
Drovers & Mech. Nat. Bank.....	100	230	230
First National Bank.....	100	136	136
Maryland National Bank.....	20	22	25
Merchants' National Bank.....	100	178	180
National Bank of Baltimore.....	100	125½	125½
National Bank of Commerce.....	15	30	30½
National Exchange Bank.....	100	155	155
National Howard Bank.....	10	14½	14½
National Mechanics' Bank.....	10	27½	28½
Second National Bank.....	100	185	185
Third National Bank.....	100	118	120
Western National Bank.....	20	36½	36½

Trust, Fidelity and Casualty Stocks.			
American Bonding Co.....	25	75	78
Baltimore Trust & Guarantee.....	100	314	320
Colonial Trust.....	50	27	29
Continental Trust.....	100	210	210
Fidelity & Deposit.....	50	152	152
Fidelity Trust.....	100	224	224
International Trust.....	100	145½	147
Maryland Casualty.....	25	92½	95
Maryland Trust.....	100	93½	95
Maryland Trust Pfd.....	100	98½	100½
Mercantile Trust & Deposit.....	50	147½	147½
U. S. Fidelity & Guaranty.....	100	140	140

Miscellaneous Stocks.			
Con. Cotton Duck Common.....	50	5	5
Con. Cotton Duck Pfd.....	50	5	5
Con. Gas, Elec. Lt. & P. Com.....	100	48	50
Con. Gas, Elec. Lt. & P. Pfd.....	100	85	86½
Consolidation Coal.....	100	109	109½
G. R. S. Brewing Co.....	100	11½	11½
George's Creek Coal.....	100	123	129½
Mer. & Miners' Trans. Co.....	100	86½	87½

Railroad Bonds.			
Atlantic Coast Line 1st 4s, 1902.....	96	96	96
Atlantic Coast Line 4s, Cfs.....	100	100	100
At. Coast Line Com. 4s, Cfs, 5-20s.....	91	92½	92½
Atlan. Coast Line (Conn.) 5s, Cfs.....	104	106	106
Balto. & Harriburg 5s, 1906.....	105¾	105¾	105¾
Balto. & Harriburg Ext. 5s, 1908.....	105	105	105
Carolina Central 4s, 1949.....	91½	91½	91½
Coal & Coke Railway 5s.....	99	99	99
Coal & Iron Railway 5s, 1920.....	101	101	101
Col. & Green. 1st 6s, 1916.....	107	107	107
Florida Southern 4s, 1940.....	91	92½	92½
Georgia & Alabama 5s, 1943.....	104	106	106
Georgia, Car. & North, 1st 5s, 1929.....	104½	104½	104½
Georgia Pacific 1st 6s, 1922.....	113¾	113¾	113¾
Georgia South. & Fla. 1st 5s, 1945.....	108½	108½	108½
Macon, Dublin & Savannah 5s.....	96½	97½	97½
Petersburg Class A 5s, 1926.....	108	110	110
Potomac Valley 1st 5s, 1941.....	105	105	105
Rich. & Augusta 1st 6s, 1926.....	117	117	117
Richmond & Dan. Gold 5s, 1915.....	106	106	106
Seaboard Air Line 5s, 10-year, 191.....	99½	99½	99½
Seaboard Air Line 5s, 3-year.....	99½	99½	99½
Seaboard & Roanoke 6s, 1916.....	100	100	100
Seaboard & Roanoke 5s, 1926.....	105¾	105¾	105¾
Southern Railway Con. 5s, 1994.....	108	108	108
Suffolk & Carolina 5s, 1902.....	100	100	100
Virginia Midland 2d 6s, 1911.....	101	101	101
Western Maryland 4s, 1902.....	84	85½	85½
Western Maryland 2d 6s, 1911.....	65	70½	70½
West Va. Central 1st 6s, 1911.....	100½	101½	101½
W. Va. Central 1st 6s, 1911.....	100½	101½	101½
W. Va. Col. & Aug. 6s, 1910.....	100	100	100
Wilmington & Weld. Gold 5s, 1935.....	111	113	113

Street Railway Bonds.			
Anneville & Potomac 5s, 1949.....	101½	103	103
Atlanta Con. St. Ry. 5s.....	105	105	105
Augusta Ry. & Elec. 5s, 1940.....	101½	101½	101½
Balto. City Pass. 5s, 1911.....	100¾	100¾	100¾
Balto. Sp. Pl. & C. 4½s.....	94½	94½	94½
Balto. Trac. 1st 5s, 1929.....	108¾	109½	109½
Balto. Trac. (N. B. Div.) 5s, 1942.....	113	113	113
Charleston City Railway 5s, 1925.....	101	101	101
City & Suburban 5s (Balt.), 1922.....	107½	107½	107½
City & Suburban 5s (Wash.), 1948.....	102½	104	104
Fairmont & Clarksburg Trac. 5s.....	95½	96½	96½
Knoxville Traction 1st 5s, 1928.....	104½	105	105
Lexington Railway 1st 5s, 1944.....	92	92	92
Macon Ry. & Lt. 1st Con. 5s, 1933.....	94	95½	95½
Maryland Electric Railway 5s.....	98½	98½	98½
Memphis Street Railway 5s.....	99½	100½	100½
Metropolitan 5s (Wash.), 1925.....	108½	108½	108½
Newport News & Old Pt. 5s, 1938.....	83	83	83
Norfolk & Portsmouth Trac. 5s.....	81½	82½	82½
Norfolk Railway & Light 5s.....	98½	99½	99½
United Railways 1st 4s, 1949.....	86½	86½	86½
United Railways Income 4s, 1949.....	57½	58	58
United Railways Funding 5s.....	83½	83½	83½

Miscellaneous Bonds.			
Ala. Con. Coal & Iron 5s.....	82	82	82
Consolidated Gas 6s, 1910.....	100½	100½	100½
Consolidated Gas 5s, 1929.....	110½	110½	110½
Consolidation Coal Refdg. 4½s.....	94½	94½	94½
G. R. S. Brewing 1st 4s.....	40½	42½	42½
G. R. S. Brewing Income 5s.....	12	12	12
Maryland Telephone 5s.....	99½	100	100
Mt. Vernon-Woodberry Cot. Duck 5s.....	74	75	75

SOUTHERN COTTON-MILL STOCKS.

Quotations Furnished by Hugh MacRae & Co., Wilmington, N. C., for Week Ending February 5.

	Bid.	Asked.
Abbeville Cotton Mills (S. C.).....	70	71
Alken Mfg. Co. (S. C.).....	85	85
American Spinning Co. (S. C.).....	155	155
Anderson Cotton Mills (S. C.).....	56	58
Arkwright Mills (S. C.).....	100	105
Augusta Factory (Ga.).....	65	70
Avondale Mills (Ala.).....	120	125
Belton Mills (S. C.).....	120	120
Bibb Mfg. Co. (Ga.).....	114	114
Brandon Mills (S. C.).....	97	101
Cabarrus Cotton Mills (N. C.).....	125	145
Chadwick-Hoskins Mfg. Co. (N. C.).....	100	100
Pfd.....	102	102
Chiquola Mfg. Co. (S. C.).....	165	170
Clifton Mfg. Co. (S. C.) Pfd.....	101	101
Clinton Cotton Mills (S. C.).....	120	125
Clifton Mfg. Co. (S. C.) Pfd.....	99	101
Clifton Mfg. Co. (S. C.) Pfd.....	101	101
Clinton Cotton Mills (S. C.).....	120	120
Columbus Mfg. Co. (Ga.).....	93	98
Courtenay Mfg. Co. (S. C.).....	90	90
Dallas Mfg. Co. (Ala.).....	110	110
Darlington Mfg. Co. (S. C.).....	80	88
Drayton Mfg. Co. (Ala.).....	100	100
Eagle & Phenix Mills (Ga.).....	135	135
Easley Cotton Mills (S. C.).....	165	176
Enoree Mfg. Co. (S. C.).....	52	60
Enoree Mfg. Co. (S. C.) Pfd.....	95	100
Enterprise Mfg. Co. (Ga.).....	75	200
Exposition Cotton Mills (Ga.).....	200	200
Gaffney Mfg. Co. (S. C.).....	80	82

Gainesville Cotton Mills (Ga.).....	60	73
Granby Cot. Mills (S. C.) 1st Pfd.....	35	45
Graniteville Mfg. Co. (S. C.).....	100	165
Greenwood Cotton Mills (S. C.).....	58	61
Grendel Mills (S. C.).....	112	115
Henrietta Mills (N. C.).....	160	175
Kline Mfg. Co. John P. (Ga.).....	95	97
Lancaster Cotton Mills (S. C.).....	130	130
Lancaster Cot. Mills (S. C.) Pfd.....	97	100
Langley Mfg. Co. (S. C.).....	107	119
Laurens Cotton Mills (S. C.).....	135	135
Limestone Mills (S. C.).....	150	160
Lockhart Mills (S. C.).....	78	90
Lockhart Mills (S. C.) Pfd.....	90	100
Loray Mills (N. C.) Pfd.....	95	97½
Marlboro Cotton Mills (S. C.).....	80	85
Mayo Mills (N. C.).....	165	185
Mills Mfg. Co. (S. C.).....	100	100
Mills Mfg. Co. (S. C.) Pfd.....	109	109
Monaghan Mills (S. C.).....	134	134
Monarch Cotton Mills (S. C.).....	102	107
Newberry Cotton Mills (S. C.).....	125	140
Norris Cotton Mills (S. C.).....	122	126
Olympia Cot. Mills (S. C.) 1st Pfd.....	90	91
Orangeburg Mfg. Co. (S. C.) 1st Pfd.....	80	91
Orton Cotton Mills (S. C.).....	101	106
Pacole Mfg. Co. (S. C.) Pfd.....	95½	102
Pacole Mfg. Co. Pfd.....	99	102
Peizer Mfg. Co. (S. C.).....	150	160
Piedmont Mfg. Co. (S. C.).....	175	177
Poe Mfg. Co. (S. C.).....	170	177
Richland Cot. Mills (S. C.) 1st Pfd.....	45	45
Raleigh Cotton Mills (N. C.).....	100	105
Roanoke Mills (N. C.).....	153	166
Saxon Mills (S. C.).....	127	127
Shilby Mfg. Co. (Ga.).....	62½	65
Spartan Mills (S. C.).....	130	140
Springstein Mills (S. C.).....	100	100
Tucapua Mills (S. C.).....	250	250
Trion Mfg. Co. (Ga.).....	140	140
Union-Buffalo Mills (S. C.) 1st Pfd.....	70	73
Victor Mfg. Co. (S. C.).....	143	148
Washington Mills (Va.).....	28	28
Washington Mills (Va.) Pfd.....	106	110
Whitney Mfg. Co. (S. C.).....	122	122
Warren Mfg. Co. (S. C.).....	93½	96
Warren Mfg. Co. (S. C.) Pfd.....	106	106
Williamson Mills (S. C.).....	117	125
Wiscasset Mills (N. C.).....	137	137
Woodruff Cotton Mills (S. C.).....	148	155
Woodside Cotton Mills (S. C.).....	97	100
Woodside Cot. Mills (S. C.) Pfd.....	95	98

Quotations Furnished by William S. Glenn, Broker, Spartanburg, S. C., for Week Ending February 7.

	Bid.	Asked
Abbeville Cotton Mills (S. C.)	99	75
Alken Mfg. Co. (S. C.)	100	96
American Spinning Co. (S. C.)	100	100
Arcadia Mills (S. C.)	96	96
Arkwright Cotton Mills (S. C.)	100	106
Augusta Factory (Ga.)	95	70
Avondale Mills (Ala.)	119	119
Beltone Mills (S. C.)	130	130
Brogan Mills (S. C.)	130	26
Cannon Mfg. Co. (N. C.)	136	136
Catawbus Cotton Mills (N. C.)	130	126
Chiquola Mills Co. (S. C.)	160	160
Clifton Mfg. Co. (S. C.)	106	110
Clinton Cotton Mills (S. C.)	118	125
Columbus Mfg. Co. (Ga.)	93	98
Courtney Mfg. Co. (S. C.)	95	95
Dalton Mills Co. (Ala.)	99	99
Darlington Mfg. Co. (S. C.)	99	99
D. E. Converse Co. (S. C.)	100	106
Drayton Mills (S. C.)	95	100
Eagle & Phenix Mills (Ga.)	117	117
Easley Cotton Mills (S. C.)	165	170
Enoree Mfg. Co. (S. C.)	92	62
Enoree Mfg. Co. (S. C.) Pfd.	90	100
Enterprise Mfg. Co. (Ga.)	76	76
Exposition Cotton Mills (Ga.)	196	190
Farley Cotton Mills (Ga.)	75	75
Glenwood Cotton Mills (S. C.)	135	145
Gluck Mills (S. C.)	138	102
Graniteville Mfg. Co. (S. C.)	150	165
Grendel Mills (S. C.)	110	113
Hartsville Cotton Mill (S. C.)	150	150
Henrietta Mills (N. C.)	160	166
Inman Mills (S. C.)	106	108
Lancaster Cotton Mills (S. C.)	135	135
Lane Cotton Mills (S. C.) Pfd.	127	127
Laurens Mills (S. C.)	125	125
Limestone Mills (S. C.)	155	165
Lockhart Mills (S. C.)	80	80
Lockhart Mills (S. C.) Pfd.	98	98
Loray Cotton Mills (N. C.) Pfd.	92	96
Marlboro Cotton Mills (S. C.)	83	83
Mills Mfg. Co. (S. C.)	92	96
Molokoh Mfg. Co. (S. C.)	106	106
Monaghan Mills (S. C.)	125	125
North Cotton Mills (S. C.)	110	110
Newberry Cotton Mills (S. C.)	124	130
Ninety-Six Cotton Mills (S. C.)	135	140
Norris Cotton Mills (S. C.)	124	130
Orr Cotton Mills (S. C.)	104	106
Pacolet Mfg. Co. (S. C.)	98	100
Pelzer Mfg. Co. (S. C.)	165	165
Piedmont Mfg. Co. (S. C.)	167	170
Por Mfg. Co., N. W. (S. C.)	170	175
Shiloh Mills (S. C.)	60	60
Sibler Mfg. Co. (Ga.)	60	62
Spanish Mills (S. C.)	133	138
Tuapeau Mills (S. C.)	250	250
Union-Buffalo (S. C.) 1st Pfd.	77	80
Union-Buffalo (S. C.) 2d Pfd.	30	25
Victor Mfg. Co. (S. C.)	149	154
Warren Mfg. Co. (S. C.)	93	96
Warren Mfg. Co. (S. C.) Pfd.	95	106
Wilmington Mfg. Co. (S. C.)	120	120
Whitewater Mfg. Co. (S. C.)	120	120
Wicaneett Mills (N. C.)	185	185
Woodruff Cotton Mills (S. C.)	155	155
Woodside Cotton Mills (S. C.)	94	99
Watts Mills (S. C.)	84	99
Williamston Mills (S. C.)	119	120

which was originally intended as a home of the Wachovia National Bank. Additional space has been secured, and the building will be made much larger than was originally intended.

The capital stock of the new concern, which will be named the Wachovia Bank & Trust Co., will be \$1,000,000 or more, with a surplus of at least 25 per cent. It will be under the management of Mr. F. H. Fries, who has been president of the Wachovia Loan & Trust Co., and Mr. James A. Gray, who has been president of the Wachovia National Bank.

The following directors have been elected: F. H. Fries, T. S. Morrison, J. E. Gilmer, W. M. Nissen, C. D. Ogburn, H. F. Shaffner, Jas. A. Gray, H. A. Pfobl, J. K. Norfleet, H. E. Fries, W. F. Shaffner, H. G. Chatham, L. H. Clement, J. W. Fries, T. B. Bailey, W. C. Ruffin, E. W. O'Hanlon, Wescott Robertson and Thomas Maslin.

President Fries has been authorized to call a meeting of the stockholders of the Wachovia Loan & Trust Co. for the purpose of changing its name and increasing the authorized capital stock from \$1,000,000 to \$2,000,000 in order to fulfill the plans.

Bank Statements.

The First National Bank of Birmingham, Ala., reports January 31, 1910, loans and discounts, \$6,839,003; total cash, \$3,626,858; capital stock, \$1,000,000; surplus and profits, \$841,401; circulation, \$1,000,000; total deposits, \$9,127,612; total resources, \$11,969,013; W. P. G. Harding, president; J. H. Woodward and J. H. Barr vice-presidents; Thomas Hopkins, cashier, and F. S. Foster and Thos. Bowron, assistant cashiers; J. E. Ozburn, secretary savings department.

The First National Bank of Richmond, Va., reports January 31, 1910, loans and discounts, \$7,127,268; cash and due from banks, \$1,825,433; capital, \$1,000,000; surplus fund, \$900,000; undivided profits, \$66,859; circulation, \$949,400; total deposits, \$6,596,369; total resources, \$10,084,398; John B. Purcell, president; John M. Miller, Jr., vice-president and cashier; Chas. R. Burnett, J. C. Joplin, W. P. Shelton and Alex. F. Ryland, assistant cashiers.

The National Exchange Bank of Baltimore, Md., reports January 31, 1910, loans and discounts, \$3,579,085; due from banks, \$699,385; cash and due from reserve agents, \$1,086,111; capital stock, \$1,000,000; surplus, \$600,000; undivided profits, \$87,645; circulation outstanding, \$932,700; deposits, \$4,314,575; total resources, \$7,074,329; Waldo Newcomer, president; Summerfield Baldwin, vice-president; R. Vinton Lansdale, cashier, and Clinton G. Morgan, assistant cashier.

The First National Bank of Commerce of Hattiesburg, Miss., reports January 31, 1910, loans and discounts, \$1,173,871; cash, exchange and due from United States Treasurer, \$378,736; capital stock, \$425,000; surplus and undivided profits, \$45,051; circulation, \$395,400; deposits, \$1,343,370; total resources, \$2,343,821. The deposits are the largest ever shown by this institution. J. P. Carter is president; John Kamper and G. L. Hawkins, vice-presidents; F. W. Foote, active vice-president; R. C. Hauenstein, cashier, and Geo. J. Hauenstein, assistant cashier.

FINANCIAL CORPORATIONS.

Ala., Dothan.—The Houston Loan & Abstract Co. incorporated; capital \$10,000; incorporators, R. L. Gaines, F. M. Gaines and W. D. Gaines.

Ark., Ashdown.—Official: The Southern Realty & Trust Co., authorized capital, \$50,000, incorporated. Directors, H. L. Toland, president; A. D. Du Laney, vice-president;

W. F. Bridewell, secretary; R. E. Major, treasurer, and W. L. Perkins.

Ark., Alma.—The Commercial Bank of Alma has been chartered with \$25,000 capital by J. H. Cole, president; J. T. Richards, vice-president; C. B. Ragon, secretary, treasurer and cashier; J. W. T. Jones, T. H. Kibler and J. J. Cravens.

Ark., Fort Smith.—M. C. Burke, president, writes that the Union Trust & Realty Co. of Fort Smith, recently incorporated, will not begin operating under the trust department until the first of next year, doing a realty business only this year; incorporators: M. C. Burke, president; James A. Burke, vice-president, and John H. Vaughn, secretary and treasurer; the company has an authorized capital of \$200,000, with \$100,000 fully paid in.

Ark., Fort Smith.—The Union Trust & Realty Co., authorized capital \$200,000, has been granted a charter and business is to begin immediately. It is reported, with M. C. Burke president, James A. Burke vice-president, and John H. Vaughn, secretary-treasurer and attorney.

Ark., Helena.—The Guaranty Loan & Trust Co., capital \$50,000, will, it is stated, soon begin business with directors thus: Judge M. L. Stephenson, president; E. S. Ready, vice-president, and Henry P. Anderson, secretary-treasurer; D. T. Hargraves, John I. Moore, A. N. Tanner and E. C. Horner.

Ark., Parkdale.—The Bank of Parkdale, capital \$15,000, incorporated by R. G. Williams, president; J. W. Morris, W. E. Barnes, J. S. O'Neal, Norwood George, James Caldwell, E. D. Gregory, and W. W. Morris, vice-president, secretary and treasurer.

Fla., Deland.—The First National Bank of Deland has been authorized to begin business; capital \$50,000; J. H. Tatum, president; J. P. Mace and B. E. Prevatt, vice-presidents, and W. E. Sullivan, cashier.

Fla., St. Petersburg.—Reported that a new bank is to be organized by A. P. Avery and associates.

Fla., Wellborn.—The Bank of Wellborn, capital \$15,000, is reported organized with G. B. Smithson president, A. W. McLeran vice-president and E. H. Pichard cashier.

Ga., Avera.—The Avera Banking Co. has made application for a charter; capital \$25,000; incorporators, L. B. Holt and J. M. Stanley of Sandersville, R. W. Dixon and L. H. Rivers of Avera.

Ga., Dublin.—The Georgia Fire Insurance Co. is reported to have made application for a charter; organizers, T. E. Toole, C. E. Perry, C. L. Tipton of this county, G. E. King of Bibb and G. C. Toole of Washington county.

Ga., Forsyth.—A new bank capitalized at \$50,000 is reported being organized.

Ga., Hawkinsville.—Southern Trust Co., capital \$100,000, organized with T. B. Ragan, president; E. J. Henry, vice-president; H. E. Couts, secretary and treasurer; J. R. Vaughan, assistant secretary and treasurer. It is stated the new company will absorb the Hawkinsville Loan & Abstract Co.

Ga., Savannah.—Official: The People's Bank of Savannah chartered; capital \$50,000; E. M. O'Brien, president and cashier; E. F. O'Connor, vice-president; L. J. McEllinn, Jr., and A. E. Pierce, assistant cashiers. Business began February 1.

Ky., Dublin.—The People's Bank, capital \$15,000, is reported organized with directors thus: Dr. J. C. Sullivan, Arthur Lowe, Ed Byrd, A. T. Bailey and A. L. Gibson; it is expected to begin business about March 1.

Ky., Louisville.—The People's Investment Co. has filed its charter; capital \$3900; incorporators, R. M. Rutherford, H. Bachman, Jr., and Roger Laufer, Sr.

Ky., Lynnville.—The Farmers' Bank reported incorporated with \$15,000 capital by Noah Caldwell, W. J. Rice and E. N. Cochran.

Ky., Middletown.—The Bank of Middletown, capital \$15,000, reported incorporated by Henry Frank, L. P. Wetherby and J. W. Urton.

Ky., Russellville.—The National Bank of Russellville has been approved; capital \$25,000; directors, George B. Edwards, W. P. Sandridge, James C. Edwards, R. F. McCuddy and Russell S. Edwards.

Md., Baltimore.—Official: The Permanent Building and Loan Association, capital \$500,000, incorporated by Joseph T. England, W. Howard Gahan, William H. Hudgins, Frank J. Hoen and Charles T. Kuhlman, all at 213 Courtland St.; business to begin in about two weeks. A press report gives directors thus: Wm. H. Gahan, Sam W. Pattison, Chas. England, Frank N. Hoen, John H. Miller, V. B. Bennett, Francis T. Homer, James McEvoy, Jr., A. Page Boyce, Richard S. Blackwell and Theodore E. Straus; Jos. Oliver, secretary.

Miss., Georgetown.—Official: The Georgetown Bank chartered; capital \$50,000; incorporators, R. W. Millsaps, I. N. Ellis, F. B. Catching, C. A. Shoemaker, W. J. Davis.

Miss., Bolton.—The Merchants' Bank is reported being organized with \$15,000 capital by W. H. Carstarphen, D. W. Graham, Ben H. Wells and others.

Miss., Jackson.—The Magnolia State Insurance Co., capital \$300,000, is reported being organized by W. D. McTaven, W. W. Simonton, I. V. Simonton, Geo. W. Green, E. H. Galloway, J. S. Hudson, O. N. Turner, E. J. Smith, W. G. McNair and L. C. Morer.

Miss., Laurel.—J. O'Farrell writes that the O'Farrell Mercantile Co. has not been incorporated.

Mo., Kansas City.—Reported that the Finance, Leasehold & Investment Co., with headquarters at 1118 Scarrill Bldg., has been incorporated by Senator A. L. Cooper, Robert J. Sutherland, J. C. Norman, B. Haywood Hagerman and Richard Robertson, Jr.

N. C., Charlotte.—The Colonial Trust Co., capital \$100,000, is reported chartered by J. C. Clifford, C. H. Wells, C. H. O'Neill, J. W. Barry and M. J. O'Neill.

N. C., Durham.—The Southern Security Co., capital \$25,000, has been incorporated; C. L. Lindsey of Chapel Hill, president; R. O. Everett, vice-president and counsel; G. C. Farthing, secretary and treasurer.

N. C., Lumberton.—A building and loan association is reported incorporated by A. W. McLean, R. D. Caldwell, W. W. Carlyle, L. H. Caldwell, Stephen McIntyre, E. J. Britt, A. E. White, C. B. Townsend, A. W. Peace, Q. T. Williams, G. G. French and Dennis Biggs.

N. C., Peterstown.—The First National Bank of Peterstown, capital \$25,000, is reported organized and expects to begin business about April 1, with directors thus: W. H. Ballard, R. F. Flesherman, E. I. Terry, S. Y. Symms and J. E. Hansbarger; Mr. Hansbarger will be president and O. P. Vines of Hinton, cashier.

N. C., Sanford.—Official: The Insurance, Realty & Investment Co., authorized capital \$50,000, will begin business with a paid-in capital of \$1200; incorporators, J. W. Cunningham, W. H. Gurley and J. W. Ruark; business will begin as soon as company is organized, which, it is expected, will be in a few days.

N. C., Weaverville.—The Farmers and Traders' Bank, capital \$25,000, is reported organized with Dr. I. A. Harris president, J. S. Coleman vice-president and D. J. Weaver cashier; directors, Dr. I. A. Harris, J. M. Whitmore, Douglas Weaver, Rev. H. M. Boyd, Ed Blackstock, J. H. Carter, Stanley Howland, W. J. Beachboard, J. S. Coleman, W. M. Reagan, E. F. Vandiver, Matt Burleson, J. K. Robinson, C. P. West, D. S. Minear, G. A. Webster and Pearce Roberts.

N. C., Sanford.—The Insurance Realty & Investment Co., capital \$50,000, is reported chartered by J. W. Cunningham, W. H. Gurley and J. W. Ruark.

Okla., Chickasha.—The Farmers' State Bank, capital \$50,000, is reported being organized by J. O. Bargeet and others of Chickasha and T. J. Jones of Charleston, Mo.

Okla., Enid.—Reports state that a bank and trust company, with capital of from \$200,000 to \$500,000, is being organized; J. H. Montay of Philadelphia, W. H. Greer and associates in the Enid, Ochiltree & Western Railroad are said to be interested; W. H. Hills is attorney for the company.

Okla., Oklahoma City.—The Oklahoma Interstate Life Insurance Co., it is stated, expects to begin business about March 1; capital \$500,000; among the stockholders are O. D. Halsell, Hugh L. Taylor, J. H. Marshall, Homer T. Wilson, Oscar G. Lee, Charles F. Colcord, I. M. Holcomb, E. D. Nims, J. L. Wilkin and George G. Sohlberg.

S. C., Aiken.—The First National Bank has been authorized to begin business; capital \$50,000; T. G. Croft, president; B. Sherwood Dunn, vice-president, and R. L. Gunter, cashier.

S. C., Belton.—The People's Bank, capital \$25,000, has been chartered with W. K. Stringer president, J. T. Price vice-president and W. D. Cox cashier.

S. C., Greenville.—Official: The Greenville Building & Loan Association incorporated; capital, \$100,000 to \$1,000,000; directors, W. C. Cleveland, president; Henry T. Mills, vice-president; J. Hudson Williams, secretary; Arthur L. Mills, treasurer; Clement F. Haynsworth, attorney; L. B. Houston, J. E. Sirrine, W. B. Smith and F. W. Symmes.

S. C., Johnston.—The Johnston Building and Loan Association is reported to have been granted a commission; capital \$25,000.

S. C., St. Stephens.—The Bank of St. Stephens, capital \$25,000, has been granted a commission; petitioners, W. G. Harvey and B. A. Hagood.

Tenn., Chattanooga.—The Hamilton Safe & Deposit Co. has filed application for a charter; capital \$400,000; directors, John Stagmaler, D. P. Montague, W. A. Burns, H. T. Olmsted, T. R. Preston, W. A. Meyer, Frank O. Rettig, J. C. Miller, J. B. Pound, G. F. Meehan, H. C. Abercrombie, L. M. Strong, S. T. Dewees, John H. Cantrell, C. M. Preston, F. A. Seagle, M. H. Ward, E. R. Bettefon, John Thompson, C. L. Loop, G. H. Miller and Sol Moyses.

Tenn., Nashville.—The Cumberland Valley National Bank will, it is stated, soon begin business, with John N. Sperry president, H. E. Donnell and L. Jonas vice-presidents, T. G. Garrett cashier, and V. J. Alexander assistant cashier.

Tenn., Waverly.—Official: The Farmers and Merchants' Bank is located at Waverly, Tenn., and not Hurricane Mills, as previously reported. W. A. Daniel is president; I. T. Crockett and H. W. Hooper, vice-presidents, and John E. Pullen, cashier.

Tex., Aransas Pass.—Official: The First State Bank of Aransas chartered; capital \$10,000; A. H. Danforth, president, and E. O. Burton, vice-president, San Antonio, Tex.; J. J. Todd, cashier, Aransas Pass; Claud S. Packard, assistant cashier and director, and T. M. Winslow, director. This is a temporary organization. Some changes will be made to localize it and increase the capital stock. The new bank succeeds the private bank of Burton & Danforth & Todd.

Tex., Bay City.—The First State Bank of Bay City chartered; capital \$55,000; incorporators, J. W. Magill, Emmett K. Perry, Thomas H. Lewis and H. G. Jamison.

Tex., Belton.—The First State Bank of Belton expects to begin business with \$25,000 capital, about February 15; directors, E. C. Clabaugh, W. C. Rylander, Jesse Blair, Fred Muehlhouse and James E. Ferguson.

Tex., Burkburnett.—Official: The First State Bank of Burkburnett, capital \$10,000, chartered; incorporators, A. F. Dodson, F. M. Shilling, Wood W. Graham, R. E. Huff, R. A. Furlow, Wm. Brockett, W. F. Willis, H. Willis and J. L. Voight.

Tex., Dallas.—The Texas Casualty & Surety Co., capital \$500,000, is reported being organized by Edward Kneeland and others.

Tex., Eagle Lake.—The Farmers and Merchants' Bank, capital \$75,000, is reported being organized by J. E. Roberts and others.

Tex., Fort Worth.—The Polytechnic Heights Investment Co., capital \$16,000, is reported incorporated by Irby Dunklin, T. M. Thannisch, W. A. Hanger and W. B. Fitzhugh.

Tex., Garwood.—Official: The Garwood State Bank chartered; capital \$10,000; business began February 1 with J. J. Pinchback, president, and W. S. Griffiths, vice-president, Garwood, Tex.; Frank Arnold, vice-president, Nada, Tex., and J. L. Chapman, cashier, Garwood, Tex.

Tex., Gilmer.—Official: The Gilmer State Bank, chartered with \$25,000 capital, began business February 1 with W. L. Willeford president, J. C. Turner, vice-president, R. B. Nelson cashier and J. H. Mathis assistant cashier; directors, W. L. Willeford, F. L. Tuttle, W. W. Sanders, S. J. Waghalter, M. P. Mell, R. L. Mattox and R. B. Nelson.

Tex., Lewisville.—The Lewisville State Bank incorporated; capital \$25,000; incorporators, J. W. Degan, F. C. Davis, Hood Cunningham, Alvin Hill, R. L. Donald, T. H. Jenkins and D. F. Kirkpatrick.

Tex., Mesquite.—The Guaranty State Bank of Mesquite, capital \$15,000, is reported incorporated by I. H. Runge, W. S. Johnson and W. P. Hawthorne.

Tex., McAllen.—The First National Bank of McAllen, capital \$25,000, is reported being organized by Judge D. B. Chapin, John Clesner and A. Y. Baker and others.

Tex., Megargel.—The First State Bank of Megargel is reported organized, with directors thus: W. O. Wright, president; E. Colgan and C. D. Caldwell, vice-presidents; C. E. McCutchen, cashier, and T. T. Meade, E. A. Spradlin and R. L. Edwards.

Tex., Nacogdoches.—The Commercial Guaranty State Bank is reported chartered, with \$20,000 capital, by E. O. Blount, V. E. Simpson, John Schmidt and T. E. Baker.

Tex., Silver Valley.—Reported chartered: First Guaranty State Bank, capital \$10,000; incorporators, R. P. Christian, J. R. Bolton and Louis S. Swope.

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 Atlanta, Ga.; Lowell, Mass.; East Orange,
 N. J., and Washington, D. C., until now
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 bonds are first lien on 7000 acres of the best
 coal properties in Tennessee, and \$75,000 of
 this money is being spent on an up-to-date
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 SUMMERFIELD BALDWIN, Vice-Pres.
 H. VINTON LANSDALE, Cashier.
 Wm. J. BELCHER, Asst. Cashier.
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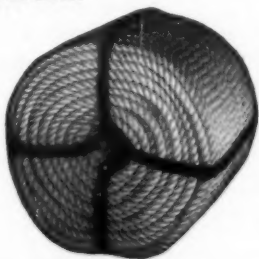
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is QUALITY

Recent government tests show
 "AMERICAN" PURE MANILA ROPE to be from 10% to 25%
 stronger than the standards set by the United States Government for
 manila ropes of various sizes.



"AMERICAN" ROPE is most economical because it gives the long-
 est service and the greatest value for the money invested.
 Specify "AMERICAN" on your orders and turn rope expense into
 rope economy.
 WRITE for our booklet "ROPE" with samples and prices.

THE AMERICAN MFG. CO.
 MANILA . . SISAL . . JUTE CORDAGE
 65 WALL STREET NEW YORK, N. Y.

TRANSMISSION ROPE

Tex., Sweetwater.—A new bank and trust company is reported to have opened for business, with Dr. J. A. Harden president and Charles Pickel cashier.

Tex., Temple.—The Temple Building & Investment Co., capital \$5000, incorporated by W. Goodrich Jones, Huling P. Robertson and F. L. Dennison.

Va., Amherst.—The Farmers & Merchants Bank has completed temporary organization as follows: Directors, W. E. Sandidge, president; W. P. Massie, vice-president; Stickley Tucker, attorney; H. L. Scott, G. H. Bowles, J. H. Mays, J. M. Cash, J. L. Tucker, T. R. Morris, O. S. Evans, E. B. McGinnis, F. B. Sandidge, W. B. Moore, J. L. Davis and E. F. Kidd.

Va., Appalachia.—The People's Bank of Appalachia, capital \$10,000 to \$25,000, is reported to have opened for business with directors thus: George Morton, president; John W. Gunter, vice-president; E. C. Malinous, cashier; directors, W. A. Head, C. E. Robinson, F. D. Green, M. D. Collier, Jr., A. L. Sturm, William Wells, John W. Gunter, George Morton, E. C. Malinous.

Va., Nokesville.—The State Bank of Nokesville is reported to have opened for business with directors thus: President, W. T. Allen; first vice-president, M. C. Hazen of Washington; second vice-president, J. P. Manuel; R. J. Wilson, J. H. Hooker, W. F. Hale, Allen H. Green, S. Hinegardner, W. R. Free, Jr., Floyd E. Davis and Hasting W. Herring; W. L. Houchens is cashier.

NEW SECURITIES.

Ala., Carbon Hill.—City is reported to have sold light and water bonds.

Ala., Guntersville.—Official: Bids will be received by the Mayor until 3 P. M. February 17 for \$15,000 of 5 per cent. 15-year water-works and school-improvement bonds.

Fla., Appalachicola.—Reported that \$20,000 of street-improvement bonds are to be issued.

Ga., Collins.—Reported that \$7500 of school bonds are to be sold at an early date.

Ga., Macon.—An official letter says that the issuing of bonds for Bibb county requires act of Legislature, and as this body does not meet until June, consequently the matter is some time in the future and quite uncertain.

Ga., Wrightsville.—Official: Bids will be received until noon March 2 for \$25,000 of 5 per cent. water-works bonds; dated December 1, 1906; maturity, \$10,000, December 1, 1912, and \$15,000, December 1, 1936; denomination \$1000. J. M. Blackshear is Clerk.

La., Homer.—March 15 an election is to be held to vote on \$40,000 of water-works bonds.

Md., Annapolis.—Reported that the \$1,000,000 of State road bonds offered February 1 were not sold.

Md., Salisbury.—A bill has been introduced in the Legislature, it is reported, authorizing Wicomico county to issue bonds to pay off certain indebtedness.

Miss., Benoit.—Reported that \$10,000 of 6 per cent. 20-year water-works bonds are being offered at private sale.

Miss., Brookville.—An official letter confirms the report that bids are being received for \$7000 of 6 per cent. 20-year water-works bonds; dated December 1, 1909. Address C. L. Allen, Town Secretary. Denomination \$100.

Miss., Jackson.—City Council is reported to have passed an ordinance authorizing the issue of the \$258,000 of 5 per cent. 20-year bonds recently voted.

Miss., McComb City.—A \$300,000 road bond issue is reported under consideration.

Miss., Natchez.—Reported voted: \$50,000 of Mississippi Western Railroad bonds.

Miss., Water Valley.—Reported voted: \$10,000 of 5 per cent. 20-year railroad aid bonds.

Mo., Centralia.—Official: Bids will be opened February 10 for \$20,000 of sewer and \$45,000 of water 5 per cent. 20-year bonds. A. B. Chance is Mayor.

Mo., Grant City.—Reported that an election is soon to be held to vote on \$3000 of bonds.

Mo., Jefferson City.—Reported that \$40,000 of bonds were recently authorized.

Mo., Jefferson City.—An election is to be held in the State of Missouri this year, it is stated, to vote on \$5,000,000 of bonds for capitol building.

N. C., Fayetteville.—E. D. Edwards of Asheville is reported to have been awarded \$50,000 of street-paving bonds.

N. C., Goldsboro.—Reported voted: \$15,000 of road bonds.

N. C., Greensboro.—Official: March 29 an election is to be held to vote on \$35,000 of bonds and \$125,000 of electric-light-plant 5 per

cent. 30-year bonds; denomination, \$1000. E. J. Stafford is Mayor.

N. C., Tarboro.—Robertson & Humphrey Co. of Atlanta are reported to have been awarded at \$997 premium and accrued interest \$20,000 of 5 per cent. 30-year bonds.

Okla., Altus.—Reported voted: \$130,000 of water-works improvement, \$35,000 of electric-light improvement and \$35,000 of sewerage improvement bonds.

Okla., Enid.—An election is to be held, it is stated, to vote on \$25,000 of water-works, \$15,000 of sanitary sewer extension, \$5000 of city jail and \$10,000 of storm-sewer bonds.

Okla., Krebs.—Official: Bids will be opened February 19 by R. E. Seaman, Mayor, for \$50,000 of 5 per cent. water-works bonds; dated February 1, 1910; maturity, February 1, 1935; denomination, \$500.

Okla., Madill.—Reported voted: \$5000 of street-improvement and \$20,000 of sewerage bonds. It is stated the bonds have already been sold.

Okla., Nowata.—Official: Commissioners of Nowata county will hold an election February 21 for the purpose of voting on \$175,000 of courthouse, jail and bridge bonds, which will also be offered on above date. Ed. Elliott is County Clerk.

Okla., Oklahoma City.—The Provident Savings & Trust Co. is reported to have been awarded at \$3662.50 premium the \$210,000 of 5 per cent. 25-year water-works, incinerator and public-building bonds.

Okla., Red Fork.—Reported that \$50,000 of road bonds have been authorized.

Tenn., Clarksville.—The Provident Savings Bank & Trust Co. of Cincinnati, O., has purchased \$25,000 of street-improvement bonds. M. C. Northington is Mayor.

Tenn., Memphis.—R. P. Lake & Son, representatives of the Equitable Life Insurance Society of New York, is reported to have purchased \$200,000 of 4½ per cent. 24-year Mississippi levee improvement bonds.

Tenn., Morristown.—Bids will be received by W. D. Bushong, City Treasurer, until 7 P. M. February 18 for \$40,000 of 5 per cent. 30-year sewerage bonds.

Tenn., Mountain View (P. O., Knoxville).—A Chicago firm is reported to have purchased at par \$20,000 of improvement bonds.

Tenn., Mt. Pleasant.—Reports state that an Atlanta (Ga.) firm has purchased \$40,000 of 6 per cent. water-works bonds at a premium of \$487.50.

Tenn., Nashville.—Reported that an election is to be held in Davidson county April 21 to vote on \$150,000 of State fair bonds.

Tenn., Nashville.—Bids will be received until March 15, it is stated, for \$250,000 of trunk-sewer and \$300,000 of high-school building 4½ per cent. 30-year bonds. Address H. S. Bauman, City Recorder.

Tex., Amarillo.—Lon. D. Marrs, Mayor, writes that an election will soon be held to vote on \$125,000 of improvement bonds.

Tex., Austin.—Reported that an election is to be held in March to vote on \$150,000 of sewer, \$100,000 of street-improvement and \$75,000 of school bonds.

Tex., Austin.—The State Board of Education has purchased for the permanent school fund the following securities: Dunn Independent District, \$3000; Kirkland, \$8000; Lueders, \$10,000; Sour Lake, \$8000; Nixon, \$10,000; Whitney, \$5000; Avoca, \$10,000; San Saba, \$10,000; Hondo, \$10,000; D'Hanis, \$8000; total, \$82,500.

Tex., Austin.—The Attorney-General has approved securities as follows: \$275,000 of water-works, \$135,000 of street-improvement, \$65,000 of fire-hall, \$25,000 of light 4½ per cent. 20-year bonds; \$17,000 of Cuero water-works refunding bonds; \$900 of Greenville improvement district bonds; \$16,000 of district No. 1 and \$10,000 of district No. 2 5 per cent. 10-40-year bonds of Concho county common school district; \$50,000 of Midland water-works bonds.

Tex., Belton.—Bell county is reported offering for sale \$1500 of 5 per cent. 10-20-year bonds of common school district No. 89.

Tex., Commerce.—Hunt county has purchased \$5000 of school building bonds, it is reported.

Tex., Dallas.—Reported that an election will be held in April to vote bonds for sewerage-disposal plant.

Tex., Dawson.—Spitzer & Co. of Toledo are reported to have purchased \$12,000 of 5 per cent. 20-40-year independent school district bonds.

Tex., Donie.—Reports state that \$3000 of independent school district bonds will be sold as early as possible.

Tex., Fort Davis.—Reported that J. P. Weatherby, County Judge, is offering for sale \$6000 of 5 per cent. 15-40-year bonds of Jeff Davis common school district No. 4.

Tex., Frost.—On March 11 bids will be received for \$15,000 of public-school bonds. Address I. N. Stokes.

Tex., Gilmer.—The First National Bank of Gilmer is reported to have purchased \$9000 of 5 per cent. 5-30-year school-building bonds.

Tex., Harlingen.—Plans are reported being made to issue school district building bonds.

Tex., Pendleton.—Reported that \$7000 of school-building bonds have been voted.

Tex., Hillsboro.—An election is to be held February 26, it is stated, to vote on \$12,500 of 5 per cent. 40-year bonds of Abbott School District.

Tex., Huntsville.—An official letter says that at the last meeting of the School Board it was decided to hold an election February 20 to vote on \$30,000 of school bonds for purchasing from the city the present new schoolhouse for the use of the independent school district; \$25,000 to be paid for building and \$5000 for addition; city also hopes to have voted bonds for sewerage system.

H. G. Eastham is Mayor, R. A. Randolph City Secretary, J. G. Ashford president, E. E. Bramlette secretary and G. A. Wynne treasurer School Board.

Tex., Palestine.—Reported that Well, Roth & Co. of Cincinnati, O., have purchased at par \$18,000 of fire department bonds.

Va., Pulaski.—L. S. Calfee, supervisor of Pulaski district, writes that the \$70,000 of 34-year road improvement bonds voted last December will probably be issued and sold this month or the first of next.

Tex., Seguin.—Reported that E. Nolte & Sons, local bankers, have purchased at par \$50,000 of Guadalupe county road bonds.

Tex., Marquez.—Reported voted: \$7500 of school-building bonds.

Tex., West.—Official: February 23 an election is to be held to vote on \$6000 of 5 per cent. 30-year school-building improvement bonds. Address M. Posdral, City Attorney.

Va., Covington.—A report says that a bill has been introduced in the Legislature authorizing an issue of \$90,000 of Alleghany county courthouse bonds.

Va., Johnstown.—Reported that an election is to be held in the near future to vote on \$367,000 of school-building bonds.

Va., Portsmouth.—Reported that application is to be made to the City Council for authority to issue \$95,000 of school-building bonds.

Va., Portsmouth.—The sale of \$150,000 of 30-year street-improvement, interest not to exceed 5 per cent., it is reported, has been authorized by the City Council.

W. Va., Martinsburg.—Hambleton & Co. and Baker, Watts & Co. of Baltimore have been awarded the \$40,000 of 5 per cent. 20-34-

year water-works bonds at \$2673.20 premium.

W. Va., Bridgeport.—Reported voted: \$2000 of 5 per cent. independent school district building bonds. Bids for same will be received until March 2.

At Wrightsville, Ga., bids will be received until noon March 2 for \$25,000 of 5 per cent. water-works bonds. Further particulars will be found in the advertising columns.

At Guntersville, Ala., bids will be received until 3 P. M. February 17 for \$15,000 of 5 per cent. 15-year water-works and school-improvement bonds. Further particulars will be found in the advertising columns.

FINANCIAL NOTES.

The City National Bank of Roanoke, Va., it is reported, will organize a savings department.

The Bank of Colfax at Colfax, La., is reported to have voted to increase its capital from \$15,000 to \$30,000.

The Bank of Pee Dee at Rockingham, N. C., is reported to have increased its capital from \$25,000 to \$50,000.

The New Waverly State Bank of New Waverly, Tex., will, it is reported, increase its capital from \$15,000 to \$20,000.

The Cordele National Bank at Cordele, Ga., is reported to have decided to increase its capital from \$50,000 to \$100,000.

The Austin County State Bank of Bellville, Tex., is reported to have amended its charter, increasing its capital from \$25,000 to \$30,000.

The Iron Ore Accident and Health Insurance Co. of Birmingham, Ala., which started business January 1, is reported to have merged into the Southern States Fire & Casualty Insurance Co., with a capital of \$1,000,000. D. E. Manusco is president.

A condensed statement of 515 banks and banks and trust companies at close of business December 31, 1909, shows loans, personal and collateral, \$31,753,577; loans, real estate, \$7,020,262; due from other banks, \$18,148,664; capital stock paid in, \$16,128,500; surplus fund, \$1,616,486; undivided profits, net, \$1,350,349; due to other banks, \$6,592,399; individual deposits, \$41,321,612; time and demand certificates of deposit, \$3,030,192; total resources, \$72,947,985.

OFFICE OF THE NORTHERN CENTRAL RAILWAY COMPANY.

Baltimore, Md., February 8, 1910.
The Annual Meeting of the Stockholders of this Company will be held at 12 o'clock M. on Thursday, the 24th day of February, 1910, at the General Office, southeast corner of Calvert and Center streets, Baltimore, when the Annual Report of the President and Board of Directors for 1909 will be presented, an election held for Twelve Directors to serve for the ensuing year, and such other business transacted as may properly come before the meeting.

STEPHEN W. WHITE, Secretary.

CONDENSED REPORT TO COMPTROLLER

The First National Bank of Birmingham, Ala.

ALABAMA'S FIRST MILLION-DOLLAR BANK

MONDAY, JANUARY 31, 1910.

RESOURCES.		LIABILITIES.	
Loans and Discounts.....	\$6,839,003.35	Capital Stock.....	\$1,000,000.00
Overdrafts.....	52.02	Surplus and Profits.....	841,401.07
U. S. Bonds and Premiums.....	1,121,000.00	Circulation.....	1,000,000.00
State of Alabama Bonds.....	157,500.00		
Other Stocks and Bonds.....	224,600.00		
CASH.		DEPOSITS.	
In Vault.....	\$1,138,627.20	Individual.....	\$7,509,798.97
With Banks.....	2,431,481.37	Bank.....	1,556,222.70
With U. S. Treasurer.....	56,750.00	United States..	61,591.20
	\$3,626,858.57		\$9,127,612.87
	\$11,969,013.94		\$11,969,013.94

UNITED STATES DEPOSITARY

Officers:

W. P. G. HARDING, President.

J. H. WOODWARD, Vice-President.

J. H. BARR, Vice-President.

THOMAS HOPKINS, Cashier.

F. S. FOSTER, Assistant Cashier.

THOS. BOWRON, Assistant Cashier.

J. E. OZBURN, Secretary Savings Department.

The First National Bank of Birmingham, in its daily routine, touches every line of industry and reaches into every county in the State; therefore, a statement of the bank is recognized as a barometer of business conditions in Alabama.

Attention is invited to the official statement rendered to the Comptroller of the Currency, which shows larger deposits and greater total resources than have appeared in any statement hitherto published by this bank. These figures are impressive, and reflect the revival of trade and the sound conditions now prevailing, as well as the confidence placed by the public in this institution.

CAREFUL ATTENTION GIVEN TO COLLECTIONS.

**RICHMOND INDUCTION MOTORS**

**1/4 TO 100 H. P.—
CONSTANT AND VARIABLE SPEED**
SEND FOR BULLETIN NO. 128

**The Richmond Electric Company,
RICHMOND, VA.**

**BARGAINS IN MACHINERY AND SUPPLIES**

Concrete Block and Tile Machinery

FOR SALE

Machinery and equipment of the second largest concrete-block and tile works in the South. Owner, retiring from business, desires to dispose of the following machinery, which is in perfect condition:

- 4 Hayden Automatic Down Face Block Machines.
 - 2 Hercules Automatic Block Machines.
 - 1 Large Air Compressor, complete, with all fixtures.
 - 2 20-horse-power Westinghouse 3-phase Alternating-Current Motors.
 - 1 30-horse-power Westinghouse 3-phase Alternating-Current Motor.
 - 2000 feet 16-lb. Steel Relay Rails.
 - 150 Ball-Bearing 4-Deck Steel Carrying Cars, built on spiral springs, for conveying blocks to yard or drykiln.
 - 2200 Cast-Iron Pallets, 3/4x8-16.
 - 2200 Cast-Iron Pallets, 3/4x8-20.
 - 2000 Cast-Iron Pallets, 3/4x8-24.
 - 2 Automatic Concrete Mixing Machines for making back mixture.
 - 1 Automatic Mixer for making block facing.
 - 3 Tile Machines, complete.
 - 1 Cement-Brick Machine.
 - 1 Complete Drykiln System.
 - 6 Automatic Tamping Sets, to be used in connection with Air Compressor.
 - 50 Face Plates, different designs, 8x16.
 - 50 Face Plates, different design, 8x20.
 - 50 Face Plates, different design, 8x24.
 - All necessary Leather Belting, Pulleys, Shafting, Hangers to operate above plant.
- Will sell the above separately or as a whole very cheap for cash, or part cash and terms to responsible party. Address
- FULENWIDER CONCRETE CO.,**
1009-14 Empire Building, Birmingham, Ala.

MACHINE SHOP, TOOLS AND EQUIPMENT

For sale—machine shop, tools and equipment. Will sell entire machine shop or will consider bids for renting same. Address

**THE SUMTER IRON WORKS,
SUMTER, S. C.**

Pews and Heating Plant for Church Wanted

A large congregation wants to buy second-hand pews and heating plant for church; also wants information about church windows. Address Box 102, Franklin, Va.

For Sale at a Bargain

1 9x12 Bacon Air Lift, simple steam air compressor, good running order, with storage drum and gauge, complete.

Address
**W. H. HARVEY,
Winona, Miss.**

MONEY FURNISHED TO MANUFACTURING PLANTS

To those with an established business and with a profitable line of goods, wishing to increase their working capital and change their location where they can get new money, better location and better transportation facilities.

Money Furnished for Good Business Propositions and Patents
For Sale—Complete Knitting Mill; will furnish 60% of the capital.

R. B. FENTRESS,
Seaboard Bank Building, Norfolk, Va.

THIS SPACE RESERVED FOR
BOYD IRON WORKS
RICHMOND, VA.
Founders and Machinists.



Terry Core Drill Company

54 Church Street NEW YORK
HAND AND POWER

CORE DRILLS

For Prospecting and Testing.
All Sizes for All Depths of Holes. Send for Catalogue.



**Time
Saved
Means**

**Money
Saved**

UNDERWOOD

STANDARD
TYPEWRITER

will save you time in your correspondence department, will save time in your accounting department and at the same time give you cleaner cut, more accurate work.

The machine that originated Visible Writing, Built-in Tabulators and Modern Bookkeeping Appliances—the machine that has led the way to every modern improvement and has caused all the "old line" machines to attempt modernizing, is

"The Machine You Will Eventually Buy"

THE UNDERWOOD TYPEWRITER CO., Inc.

27 West Fayette Street, Baltimore, Md.

Special Advertisements of General Interest.

For Sale or Lease

A lead smelting and pipe plant, located at Cape Girardeau, Mo., on a 20-acre site, with two railroads and river facilities. The plant could be completed for operation at small expense, and lead ore could be secured from either the Joplin or the Lead Belt Territory of Southeast Missouri. The property is controlled by local people, and they are seeking capital and experience to complete and operate it.

For further particulars, address
THOS. M. WILLIAMS, Secty.,
Cape Girardeau, Mo.

Opening for Hustling Commercial Secretary

The Chamber of Commerce of Talladega Ala., desires the services of a competent man as Secretary of that organization. Prefer man from Middle West who, in addition to being generally competent, understands the agricultural end with a view of promoting emigration from that section.

Position will pay good salary. Any other information desired will be promptly furnished by the

CHAMBER OF COMMERCE,
Talladega, Ala.

FOR SALE

A modern Foundry and Machine Shop, excellent buildings, with five acres of ground, railroad and switching facilities unexcelled, equipped, and in the best town in the Mississippi Valley. Address

W. A. SCHERFE, Assignee,
Fort Madison, Iowa.

Woodworking Mill

For Sale at a Bargain

With necessary machinery for manufacture of sash, doors and blinds. Will sell on easy terms. Write

FIRST NATIONAL BANK,
Newport News, Va.

FOR SALE

Immediate Delivery

P. R. R. Standard Wooden Passenger Cars

(Including Baggage, Passenger-Baggage, Postal, Etc.)

Now in Service

REPLACED BY STEEL EQUIPMENT

For particulars address

THE PENNSYLVANIA RAILROAD COMPANY

D. S. NEWHALL, Purchasing Agent

Broad Street Station

PHILADELPHIA, PA.

ALPHABETICAL INDEX OF ADVERTISERS.

Ads. marked * appear every other week. Ads. marked † appear in first issue of the month. Ads. marked ‡ not in this issue

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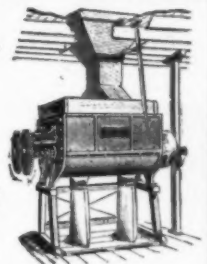
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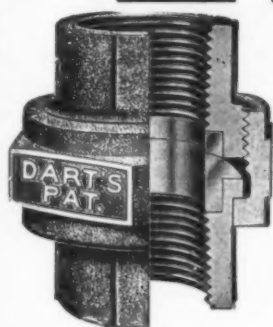
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CRUCIAL TEST
Of Fifteen Years'
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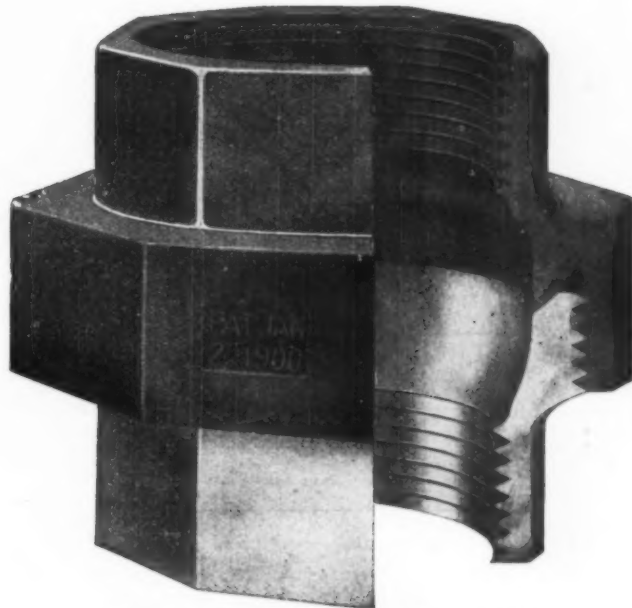
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"Had a pleasant interview with Mr. —, who is using 'Kewanee' Unions exclusively, and with good success. He is very well pleased with our Unions, as he stated they do not have to purchase as many Unions as formerly, for they use the 'Kewanee' Union over and over again."

Some of the points of advantage of the "KEWANEE" UNION by reason of which this superintendent was originally induced to install them are as follows:

- Brass to iron thread connection at the ring. Brass to iron will not rust together, and the joints can be disconnected and reconnected without injury. An iron to iron joint will rust together, thus unfitting it for further service.
- Brass to iron ball joint seat. A joint of two different metals (that is, a hard and a soft metal) is better than a joint made of two soft or two hard metals, for a brass to iron ball joint makes a tight seal without a gasket.
- The "KEWANEE" UNION consists of three solid parts only; there are no inserted pieces to become loose by unequal expansion or contraction.
- When after years of service the "KEWANEE" UNION has earned the repose of the scrap pile, the brass end has a substantial scrap value.
- Every "KEWANEE" UNION is tested with 100 lbs. compressed air under water; the slightest leak shows on the water in the form of a bubble, and any defective union is scrapped. The value of this test is that every union sent out is practically perfect.

Write to us if you are interested in the union question, and we will send you a copy of our illustrated booklet "THE WHOLE KEWANEE FAMILY."

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AGENTS AND SALESMEN WANTED

LIVE-WIRE SALESMEN calling on manufacturers' trade; large profits; small samples; quick sales. Fairfax Refining Co., Cleveland, Ohio.

AGENCY WANTED

WANTED—General agency for Texas for novelties, manufacturers' specialties and patented articles, meritorious and ready sale. Address Texas Novelty Co., Houston, Texas.

WANTED—To communicate with a manufacturer who desires a bonded broker or distributing agent for Kansas and Oklahoma; have good warehouse facilities. Address O. T. Hamilton, Wichita, Kansas.

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PRACTICAL MECHANIC and general superintendent of construction is open for position; thoroughly understands plans and all construction work; references furnished. Address No. 575, care Manufacturers' Record.

ADVERTISER desirous of locating South wants position as manager, auditor, accountant, or anything where merit, energy and close application will insure a future; age 40; many years' practical commercial experience; highest references; reasonable salary. Address No. 574, care Manufacturers' Record.

PUBLIC ACCOUNTANT of ability seeks permanent connection with corporation or partnership requiring an intelligent supervision of its accounting department; no objection to some travel; undoubted reference. Address No. 570, care Manufacturers' Record, 52 Broadway, New York city.

BUILDING SUPERINTENDENT, thoroughly conversant with all the branches of the building trades, with fifteen years' experience in that capacity, is open for a proposition from either contractor or owner; best of references as to ability and character. Address "Builder," No. 7 Wellington Apartment, Atlanta, Ga.

HELP WANTED

WANTED—Two civil engineers, one architectural draftsman and two stock and bond salesmen; only consider good, experienced men, and must act quick. Write to "D," care of Screven Hotel, Savannah, Ga.

WANTED—A superintendent for a new store-fixture and showcase factory; must have executive and mechanical ability and come well recommended. Address No. 572, care Manufacturers' Record.

DRAFTSMEN WANTED.—Men familiar with general design of manufacturing plants. Apply Box No. 572, Greenville, S. C.

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RENSSELAER POLYTECHNIC INSTITUTE, TROY, N. Y.—Courses in Civil, Mechanical and Electrical engineering, and General Science, leading to the degrees of Civil Engineer (C.E.), Mechanical Engineer (M.E.), Electrical Engineer (E.E.), and Bachelor of Science (B.S.). Special courses in engineering and science. Splendidly equipped new engineering laboratories. Send for catalogues to Registrar.

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COMMERCIAL STATE BANK, Birmingham, Ala. State depository. Prompt attention to Alabama collections.

THE PALMETTO NATIONAL BANK, Columbia, S. C., capital \$250,000, solicits accounts of banks, firms, corporations and individuals either commercial or savings accounts.

BANK OF ENSLEY, Ensley, Ala., capital \$100,000, surplus and profits \$50,000. Individual responsibility more than a million dollars. Collections made promptly.

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TYPEWRITERS—New, rebuilt and second-hand; all makes at lowest prices and guaranteed. Southern Typewriter & Supply Co., 229 West Fayette street, Baltimore, Md.

BUSINESS OPPORTUNITIES

WANTED—Partner with ten thousand cash and command of fifteen thousand or more additional to take half interest in an established contract business; have large equipment. Correspondence invited. Don't write unless you mean business. Address No. 573, care Manufacturers' Record.

GOOD LEAD AND ZINC prospects are in demand. We think we have one and want to sell a half interest at a fair price. Address No. 569, care Manufacturers' Record.

WOULD like to hear of any small electrical plants in Southern States being offered for sale. Address No. 571, care Manufacturers' Record.

Rate 20 cents per line per insertion. Minimum space accepted, four lines. Maximum space accepted, 24 lines. Allow seven words per line. Terms: Invariably cash with order; check, postoffice or express order or stamps accepted. No display type used. Questionable or undesirable advertisements will not be accepted. The assistance of our readers in excluding undesirable advertisements is requested. We reserve the right to refuse any advertisement. No patent medicine, whiskey or mining stock advertisements accepted. Rate for special contracts covering space used as desired within one year, as follows: 100 lines, 18c. per line; 300 lines 16c. per line; 500 lines or more, 15c. per line.

ACTIVE PARTNER WANTED.—McKamey Bros., Ft. Lavaca, Texas, want assistant manager; will sell half interest in established, paying dry-goods business to right party; stock about \$10,000; entire sales grocery and dry goods last year, \$80,000.

FOR SALE.—In Newport News, Va., the city of rapid growth, fine brick, sash, door and blind plant, with 14 city lots on C. & O. siding; great sacrifice; fine opening; particulars will interest you; but little competition; 30,000 people to supply. Somerville Trust Co., Inc., Newport News, Va.

PROMOTOR WANTED for a machine and tools; nothing out like it; has been demonstrated that it will sell; investigation solicited from persons with A1 reference. C. M. Nichols, Beaumont, Texas.

\$25,000 OR MORE to invest with services in a manufacturing business, preferably in Baltimore; highest references furnished and required. Address No. 568, care Manufacturers' Record.

NOTICE.—I want to interest someone with small capital to handle zinc mine developed beyond risk. Address R. L. Workman, St. Joe, Ark.

WE CAN GIVE MEN of selling ability an opportunity to sell our apparatus among farmers. The business is very profitable. Davis Acetylene Co., 27 Prospect St., Elkhart, Ind.

PARTNER WANTED.—An active business man with \$5000 can get an interest in a high-class, profitable, well-established business with a good salary from the start. Write, stating experience, C. E. Reeve, 107 West Grand Ave., Oklahoma City, Okla.

INTEREST in well-established and prosperous foundry and machine shop, with large woodworking plant attached, in Southern city, for sale; equipped with new and up-to-date machinery; running on full time; want to retire from active business. Don't write unless you mean business and have money to invest. Bank references given and required. Purchase of stock carries control of company. Address No. 561, care Manufacturers' Record.

WANTED—Partner with money; big money to be made in Oklahoma lands, town and city properties. Oklahoma has the soil, the climate, the mineral and the oil. Anyone wanting to engage in a very profitable business will find it to his interest to engage with J. K. Green at Dewey, Okla. Can use \$50,000 to a great advantage just now buying land. Cheap gas and plenty of it at Dewey, Okla.

PATENTS—Send me disclosure of your important invention. I will personally prepare the case. Hubert E. Peck, 629 F St. N. W., Washington, D. C.

WANTED—A man who thoroughly understands selling veneers and oak lumber; one with an established trade preferred, who can invest \$5000; will pay \$150 per month salary and 10% on the money, with good security. Address No. 564, care Manufacturers' Record.

WANTED—A man that thoroughly understands the manufacture of hardwood on a hand mill that can invest \$10,000; will pay \$150 per month salary and 10 per cent. interest on the money, with good security. Address No. 562, care Manufacturers' Record.

WANTED—A man that thoroughly understands the cruising of timber in a hardwood country that can invest \$5000; will pay \$150 salary per month and 10 per cent. on the money, with good security. Address No. 563, care Manufacturers' Record.

STORE FIXTURES FOR SALE

HAVING leased my big department store to Messrs. Gomprecht & Benech, to give possession February 20, so everything must go quick in stock and fixtures; one 6-drawer National cash register, showcases of every description, office and fixtures, and every imaginable store fixture; 12 fine counters; 5000 ft. of shelving. Anyone starting 5c., 10c., 25c. business will do well to write J. E. Shannahan, Easton, Md.

HOTEL

NEW EXCHANGE HOTEL, block of Union depot and postoffice, Waco, Texas; remodeled and refurbished; every provision for guests' comfort; best service for your money. A. D. Adams, proprietor.

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FOR SALE—Foy Hotel, Indian Spring, Ga.; new and modern resort hotel; 60 rooms and furnishings; on reasonable terms. Address H. J. Biddenback, Springfield, Ga.

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RED MINERAL SPRINGS, MT. PLEASANT, TEXAS, a delightful winter resort, boating, bathing and other outdoor amusements affording pleasant recreation. Red Mineral Springs water is especially valuable in cases of indigestion, stomach, kidney and bladder troubles; highly recommended by doctors and chemists; splendid hotel facilities. Red Mineral Springs Development Co., Mt. Pleasant, Texas.

CAMP HOUSES

BUILD your own camp house, not a tent, for health, business or pleasure; 10x12 feet; substantial as a house, with the advantages of a tent; wood-frame floor and ceilings, galvanized roof, heavy waterproof duck walls; complete blueprint and specifications for \$2. Address Central Roofing & Supply Co., Box 177, Evansville, Ind.

MANUFACTURING SITE

FOR SALE—First-class manufacturing site for corn, woodworking, cotton or cottonseed-oil business; on Mississippi River and railroad, and a second railroad preparing to build in. Address Box 337, Hickman, Ky.

INDUSTRIES WANTED

CANNING PLANT

CANNING PLANT.—City in heart of truck-growing section will assist in organization and operation first-class cannery; building and some machinery installed already owned locally. Address C. Fort Andrews, Secretary Board of Trade, Waycross, Ga.

FURNITURE FACTORY

WANTED—Furniture factory at Valdosta, Ga. Practical man with some capital will have co-operation of local capital. W. L. Giessner, Secy. Board of Trade, Valdosta, Ga.

TILE AND SEWER PIPE PLANT

LOCATION FOR TILE AND SEWER-PIPE PLANT.—Good town on Seaboard Air Line Railway offers a material suitable for the manufacture of tile and sewer pipe; material, coal site in immediate proximity to each other, with good railroad facilities. Address J. W. White, General Industrial Agent, Seaboard Air Line Railway, Norfolk, Va.

TILE AND BRICK PLANT

POTEAU, OKLAHOMA, has an abundance of shale suitable for tile and brick; has been tested; any reasonable inducement will be offered to foreign capital. Address Business Men's League, Poteau, Okla., O. C. Fontaine, Secy.

BRICK PLANTS

BRICK PLANT WANTED at Mount Pleasant, Texas; abundance of raw material; clay in three colors, suitable for the manufacture of building, fire and vitrified brick; cheap fuel; railroads four ways out; building operations are very active within a radius of 100 miles, and the demand for clay products of all kinds is constantly increasing. A new railroad is now being built to Paris, and it will be through four good towns on 50 miles new country thickly settled. Three hundred resident homes built in last 18 months; several under construction; low taxes; good healthy farming country. For further information address J. V. Moore, Com. Sect. Mount Pleasant Commercial Club, Mount Pleasant, Texas.

BRICK PLANT WANTED AT COLEMAN, TEXAS.—Steel now being laid out of Coleman on the 310-mile Coleman-Texico cut-off of the Santa Fe, the best road ever built in Texas, through the best and most rapidly developing part of the United States. The Temple branch of the Santa Fe also passes through Coleman. A million brick are needed in Coleman now, also brick to build a number of new towns on the cut-off. We have unlimited amount of best shale, abundant water, cheap fuel and are the distributing point for a large area. Ask the Commercial Club, Coleman, Texas.

FIRE BRICK

FIRE BRICK AND POTTERS' CLAY.—Excellent quality fire-brick clay, suitable for paving brick, fire brick, drain pipes and pottery; as good as any fire clay in the State; shipping facilities excellent; cheap fuel; plenty of good water; healthy country; labor plentiful; supply of clay inexhaustible. Refer to File No. 503. J. I. Hey, Auditor and Traffic Manager, Marshall & East Texas Railway, Marshall, Texas.

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ATLANTA, TEXAS, WANTS A GLASS FACTORY.—We have an unlimited quantity of glass sand that analyzes over 99 per cent. silica; natural gas in any quantity at satisfactory price; salt and lime manufactured close by; plenty of timber and water and other material; free site, free sand 20 years, exemption from city taxation 10 years, free artesian water to the first factory; transportation and rates all right. Write for full particulars on this and other factory proposition. Great opportunities. Cass County Industrial League, Atlanta, Texas.

COTTON MILLS

THE BUSINESS MEN'S LEAGUE of Poteau will take \$30,000 stock in a \$100,000 cotton mill; good railroad facilities; cheap fuel; plenty of water. Address Business Men's League, Poteau, Okla., O. C. Fontaine, Secy.

ABILENE, TEXAS, wants a cotton mill; inexhaustible supply of pure water; steam coal at \$1.50 per ton; splendid shipping facilities; near the geographical center of the State; one-quarter million bales of cotton produced within a radius of 45 miles of the city last year. Address Abilene 25,000 Club, Box 537.

HOTELS WANTED

MINERAL WELLS, TEXAS.—One of America's greatest resorts for the treatment and care of people afflicted with Bright's disease, rheumatism, stomach, liver, kidney and bladder troubles; with 150,000 visitors annually; has sixty hotels and large boarding-houses now in operation. We need a modern hotel with from 300 to 500 rooms, built and equipped to cater to a high-class patronage, and we can show that such a hotel will pay. We wish to correspond with parties experienced in this line of endeavor desiring this kind of investment. Some local capital could be interested. Address C. W. Wilson, President Commercial Club, Mineral Wells, Texas.

ICE PLANT

ICE PLANT WANTED.—Hansen, Texas, the second largest town in Hill county; situated in the heart of the black-land belt of Central Texas; 15,000 population of well-to-do people in our trade territory to serve; abundance of purest artesian water on liberal terms; with free site and liberal subscriptions to stock, and every reasonable encouragement to experienced, practical man to build and operate a ten-ton ice plant. Address Board of Trade, Hansen, Texas.

CREAMERY

WAXAHACHIE, TEXAS, wants a creamery; has 10,000 population, and 80,000 in the county, with 1,275,000 within a radius of 100 miles; Ellis county produces more cotton than any other county in the world; with railroads radiating in five directions and reaching many populous cities; in the famous alfalfa belt of Texas; with an abundance of pure water, fine water-works and sewerage system; now spending \$250,000 on macadamized roads within a radius of 10 miles and leading into the city; with at least 1000 good milk cows to start on within a radius of five miles, and this number would possibly be quadrupled within a short time. Waxahachie has many beautiful homes, 10 church edifices, is the home of Trinity University; public high school affiliated with State University. To a competent, practical man, liberal inducements will be offered by the citizens of Waxahachie for the location of a good creamery here. Interested parties will receive full information by addressing Roy Connally, Secy. Waxahachie Com'l. Club, Waxahachie, Texas.

COTTON COMPRESSES

QUANAH, population 5000, marketed 15,000 bales cotton 1909; wants cotton compress; 100,000 bales in sight for same low estimate; citizens will take \$15,000 stock in such enterprise; want experienced party to take balance. Chamber of Commerce, Quanah, Tex.

COTTONSEED-OIL MILL

LOCATION FOR COTTONSEED-OIL MILL. The citizens of a thriving little town in Georgia, on the Seaboard Air Line Railway, are anxious for a cottonseed-oil mill, and will subscribe \$15,000 to \$20,000 for the establishment of such an industry if an experienced oil-mill man will invest a like amount; location in center of cotton district, and abundant seed supply is available. Full information on request. J. W. White, General Industrial Agent, Seaboard Air Line Railway, Norfolk, Va.

MISCELLANEOUS

NAVASOTA, TEXAS.—With railroads radiating in eight directions and prospective navigation to deep water, and with a sufficient quantity of raw material at hand to secure the successful operation of the following manufacturing enterprises, we feel warranted in inviting the attention of business men to invest with us in the following: Cotton-yarn mill, pressed-brick plant, and creamery for one thousand cows. Address J. J. Felder, Navasota, Texas.

THE CITY OF FLORENCE, S. C., in the center of the great cotton and tobacco region of the Pee Dee section of South Carolina, has attractive propositions to offer for a brick-manufacturing plant, a carriage and wagon factory, a machine shop and foundry, lumber and woodworking plant; finest distributing point in the State, with unsurpassed railroad facilities; abundance of good brick clay. Such plants could control output in this the finest agricultural region in the Southeast. Correspondence solicited by the Florence Board of Trade.

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